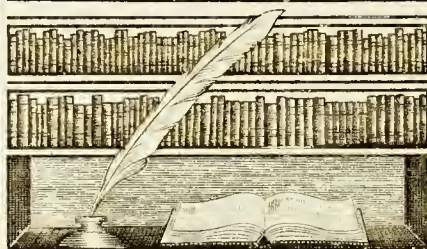


THE AGARICACEAE

OF

MICHIGAN

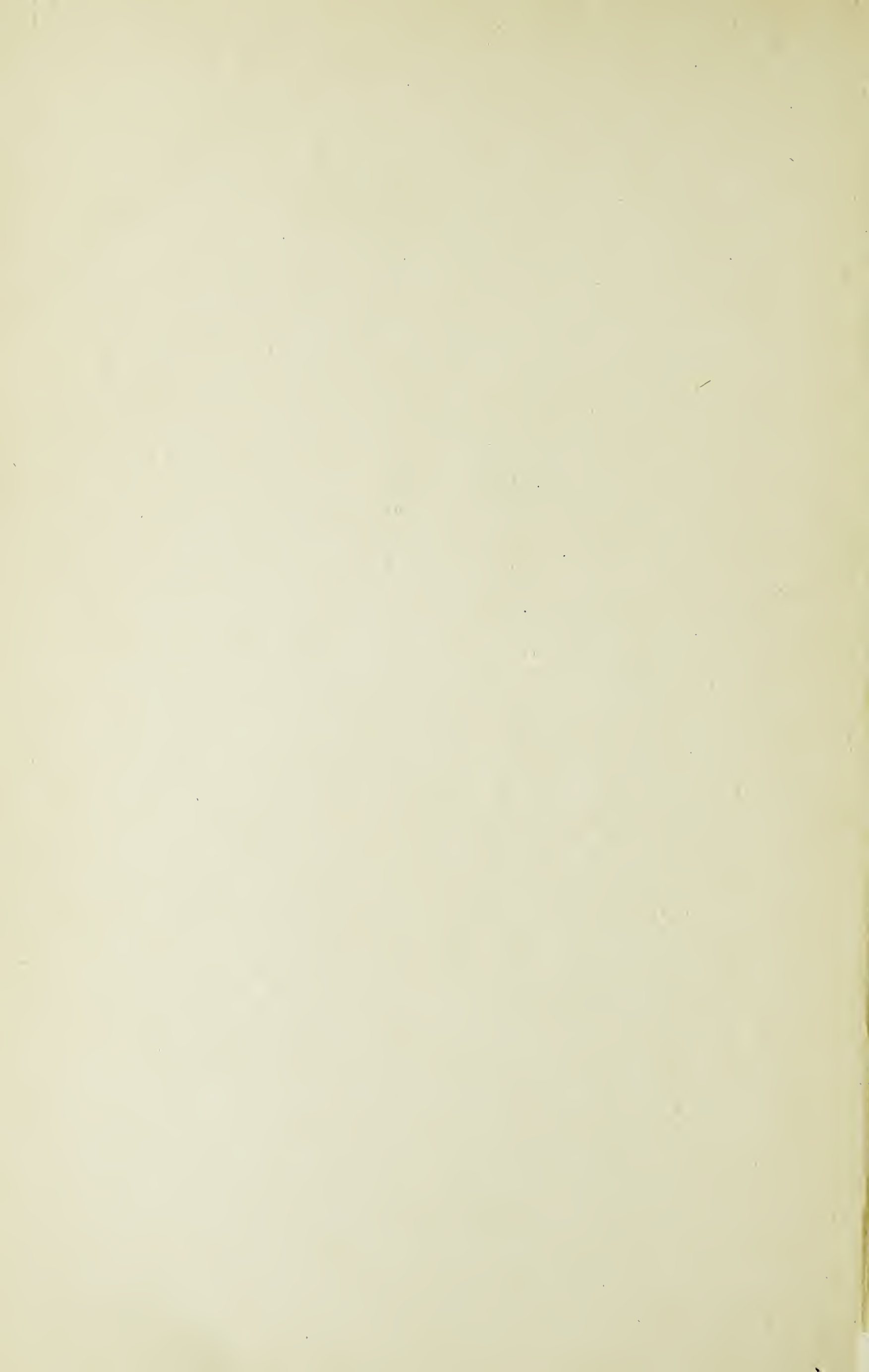
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MICHIGAN GEOLOGICAL AND BIOLOGICAL SURVEY

Publication 26

Biological Series 5

THE AGARICACEAE OF MICHIGAN

BY

C. H. KAUFFMAN

VOL. II

PLATES



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1918



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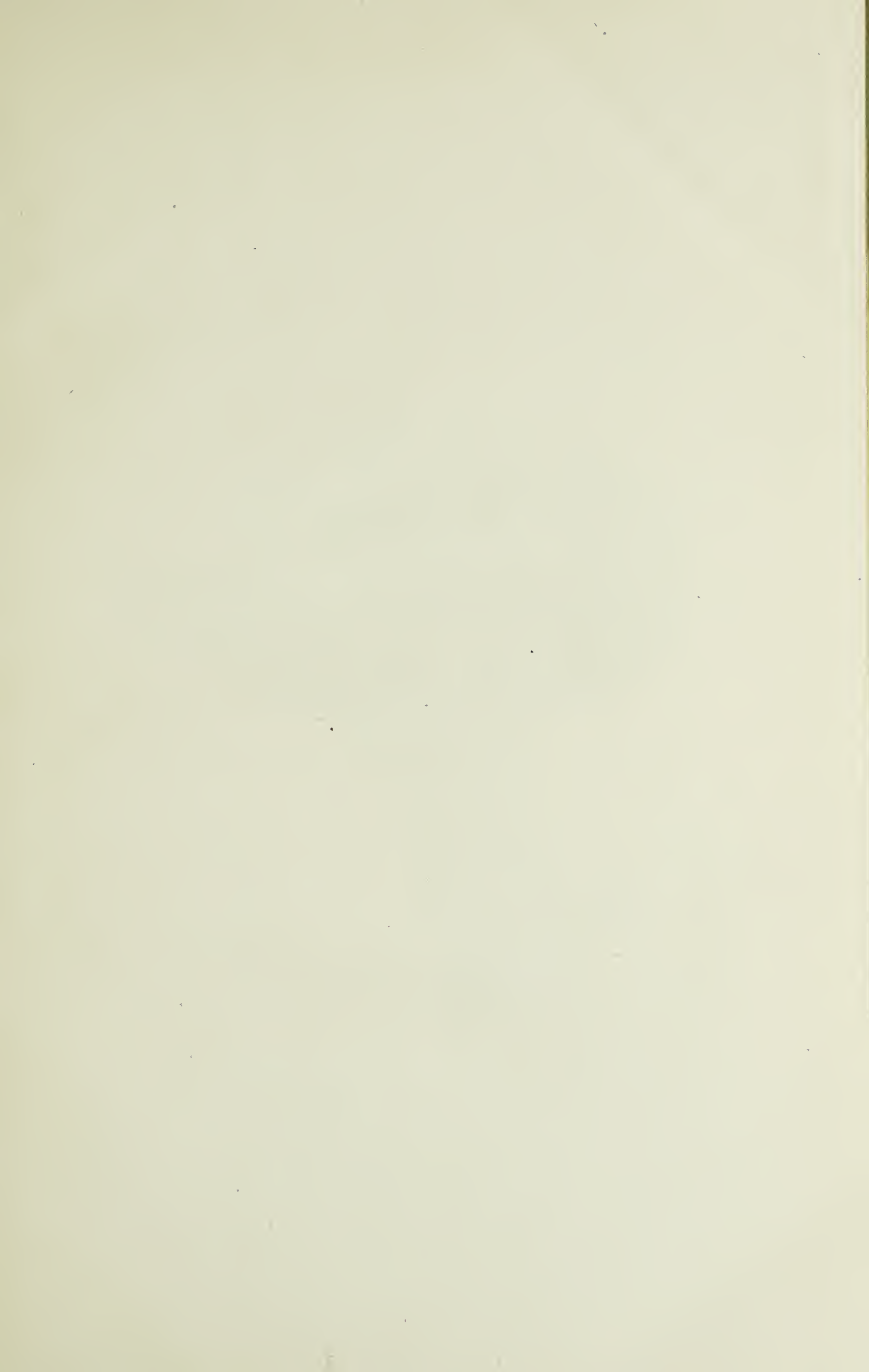
PLATES

Plate XLVIII.....	Psalliota subrufescens
Plate XLIX.....	Psalliota subrufescens
Plate L.....	{ Psalliota subrufescens Psalliota diminutiva
Plate LI.....	{ Stropharia umbonatescens Hypholoma sublateritius
Plate LII.....	Hypholoma lachrymabundum
Plate LIII.....	Hypholoma velutinum
Plate LIV.....	Hypholoma incertum, and Psilocybe foenisecii
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Plate LX.....	Pholiota destruens
Plate LXI.....	Pholiota spectabilis
Plate LXII.....	Pholiota aeruginosa
Plate LXIII.....	Cortinarius mucifluus
Plate LXIV.....	Cortinarius cylindripes
Plate LXV.....	Cortinarius sphoerosporus
Plate LXVI.....	Cortinarius iodeoides
Plate LXVII.....	Cortinarius atkinsonianus
Plate LXVIII.....	Cortinarius calochrous
Plate LXIX.....	Cortinarius elegantoides
Plate LXX.....	Cortinarius sphoerosperma
Plate LXXI.....	{ Cortinarius purpurascens Cortinarius fulmineus var. sulphurens
Plate LXXII.....	Cortinarius multiformis
Plate LXXIII.....	{ Cortinarius intrusus Cortinarius infractus
Plate LXXIV.....	Cortinarius coloratus
Plate LXXV.....	Cortinarius subpulchrifolius
Plate LXXVI.....	Cortinarius pholideus
Plate LXXVII.....	Cortinarius bolaris
Plate LXXVIII.....	Cortinarius annulatus
Plate LXXIX.....	Cortinarius flavifolius
Plate LXXX.....	Cortinarius flavifolius
Plate LXXXI.....	Cortinarius croceocolor
Plate LXXXII.....	Cortinarius lilacinus
Plate LXXXIII.....	Cortinarius torvus
Plate LXXXIV.....	Cortinarius deceptivus
Plate LXXXV.....	Cortinarius armillatus
Plate LXXXVI.....	Cortinarius armillatus
Plate LXXXVII.....	{ Cortinarius badius Cortinarius lignaris
Plate LXXXVIII.....	Cortinarius distans
Plate LXXXIX.....	Cortinarius paleaceus
Plate XC.....	Cortinarius glabellus
Plate XCI.....	Inocybe calospora
Plate XCII.....	Inocybe frumentacea var. jurana
Plate XCIII.....	Inocybe fastigiata
Plate XCIV.....	Inocybe fibrosa
Plate XCV.....	Inocybe repanda
Plate XCVI.....	Hebeloma sinapizans
Plate XCVII.....	{ Hebeloma crustuliniforme var. sphagnophilum Galera sp.
Plate XCVIII.....	Pluteolus expansus
Plate XCIX.....	{ Pluteolus reticulatus Naucoria semiorbicularis
Plate C.....	Volvaria bombycina
Plate CI.....	{ Volvaria pusilla Chameota sphaerospora
Plate CII.....	Chameota sphaerospora
Plate CIII.....	Pluteus cervinus

PLATES

Plate CIV.....	<i>Pluteus longistriatus</i>
Plate CV.....	<i>Entoloma rhodopolium</i>
Plate CVI.....	<i>Entoloma sericeum</i>
Plate CVII.....	<i>Entoloma strictius</i>
Plate CVIII.....	<i>Entoloma grayanum</i>
Plate CIX.....	<i>Entoloma speculum</i>
Plate CX.....	<i>Entoloma cuspidatum</i>
Plate CXI.....	<i>Clitopilus abortivus</i>
Plate CXII.....	<i>Clitopilus caespitosus</i>
Plate CXIII.....	<i>Clitopilus caespitosus</i>
Plate CXIV.....	{ <i>Leptonia placida</i>
	{ <i>Leptonia risea</i>
Plate CXV.....	{ <i>Nolanea versatilis</i>
	{ <i>Claudopus nidulans</i>
Plate CXVI.....	<i>Amanita verna</i>
Plate CXVII.....	<i>Amanita porphyria</i>
Plate CXVIII.....	<i>Amanita spreta</i>
Plate CXIX.....	<i>Amanita cothurnata</i>
Plate CXX.....	<i>Amanita chrysoblema</i>
Plate CXXI.....	<i>Amanita rubescens</i>
Plate CXXII.....	<i>Amanita flavorubescens</i>
Plate CXXIII.....	<i>Amanita flavoconia</i>
Plate CXXIV.....	<i>Amanita spissa</i>
Plate CXXV.....	<i>Amanitopsis vaginata</i>
Plate CXXVI.....	<i>Amanitopsis vaginata</i>
Plate CXXVII.....	<i>Lepiota fischeri</i>
Plate CXXVIII.....	<i>Lepiota clypeolaria</i>
Plate CXXIX.....	<i>Lepiota granosa</i>
Plate CXXX.....	<i>Lepiota cepaestipes</i>
Plate CXXXI.....	<i>Lepiota cristata</i>
Plate CXXXII.....	<i>Lepiota procera</i>
Plate CXXXIII.....	<i>Fairy Ring of Lepiota morgani</i>
Plate CXXXIV.....	<i>Lepiota morgani</i>
Plate CXXXV.....	<i>Lepiota naucina</i>
Plate CXXXVI.....	<i>Lepiota naucina</i>
Plate CXXXVII.....	<i>Armillaria caligata</i>
Plate CXXXVIII.....	<i>Armillaria mellea</i>
Plate CXXXIX.....	<i>Armillaria mellea</i>
Plate CXL.....	<i>Armillaria mellea</i> var. <i>exannulata</i>
Plate CXLI.....	<i>Pleurotus ulmarius</i>
Plate CXLII.....	<i>Pleurotus ostreatus</i>
Plate CXLIII.....	<i>Pleurotus lignatilis</i>
Plate CXLIV.....	<i>Pleurotus fimbriatus</i> var. <i>regularis</i>
Plate CXLV.....	<i>Pleurotus albolanatus</i>
Plate CXLVI.....	<i>Tricholoma ustale</i>
Plate CXLVII.....	<i>Tricholoma nobile</i>
Plate CXLVIII.....	<i>Tricholoma acre</i>
Plate CXLIX.....	{ <i>Tricholoma terreum</i>
	{ <i>Tricholoma fuligineum</i>
Plate CL.....	<i>Tricholoma laticeps</i>
Plate CLI.....	<i>Tricholoma acerbum</i>
Plate CLII.....	<i>Tricholoma tumidum</i>
Plate CLIII.....	<i>Tricholoma cinerascens</i>
Plate CLIV.....	<i>Clitocybe piceina</i>
Plate CLV.....	<i>Clitocybe maxima</i>
Plate CLVI.....	<i>Clitocybe praecox</i>
Plate CLVII.....	<i>Clitocybe multiceps</i>
Plate CLVIII.....	<i>Clitocybe infundibuliformis</i>
Plate CLIX.....	{ <i>Clitocybe cyathiforme</i>
	{ <i>Clitocybe morbifera</i>
Plate CLX.....	<i>Collybia dryophila</i>
Plate CLXI.....	<i>Collybia strictipes</i>
Plate CLXII.....	<i>Collybia alcalinolens</i>
Plate CLXIII.....	<i>Collybia familia</i>
Plate CLXIV.....	<i>Collybia hygrophoroides</i>

Plate CLXV.....	Collybia plexipes
Plate CLXVI.....	Collybia abundans
Plate CLXVII.....	Collybia radicata
Plate CLXVIII.....	Collybia velutipes
Plate CLXIX.....	{ Collybia floccipes
	{ Mycena sp.
Plate CLXX.....	Mycena inclinata var.
Plate CLXXI.....	{ Omphalia epichysium
	{ Omphalia gracillima
Plate CLXII.....	Omphalia campanella





NYCTALIS ASTEROPHORA.



CANTHERELLUS CLAVATUS.



CANTHERELLUS CINNABARINUS.



CANTHARELLUS CIBARIUS.



PANUS STRIGOSUS.

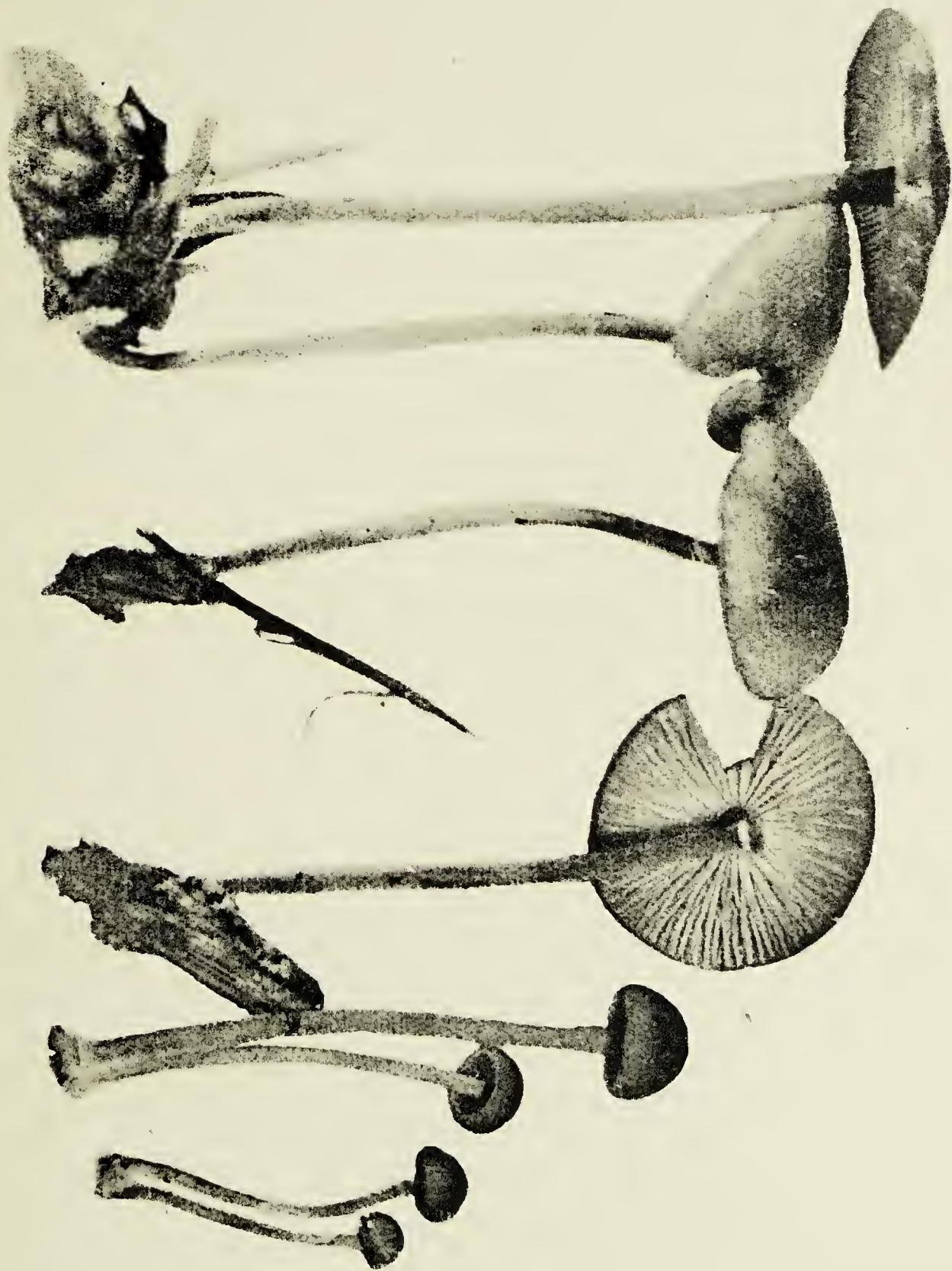


PANUS RUDIS.



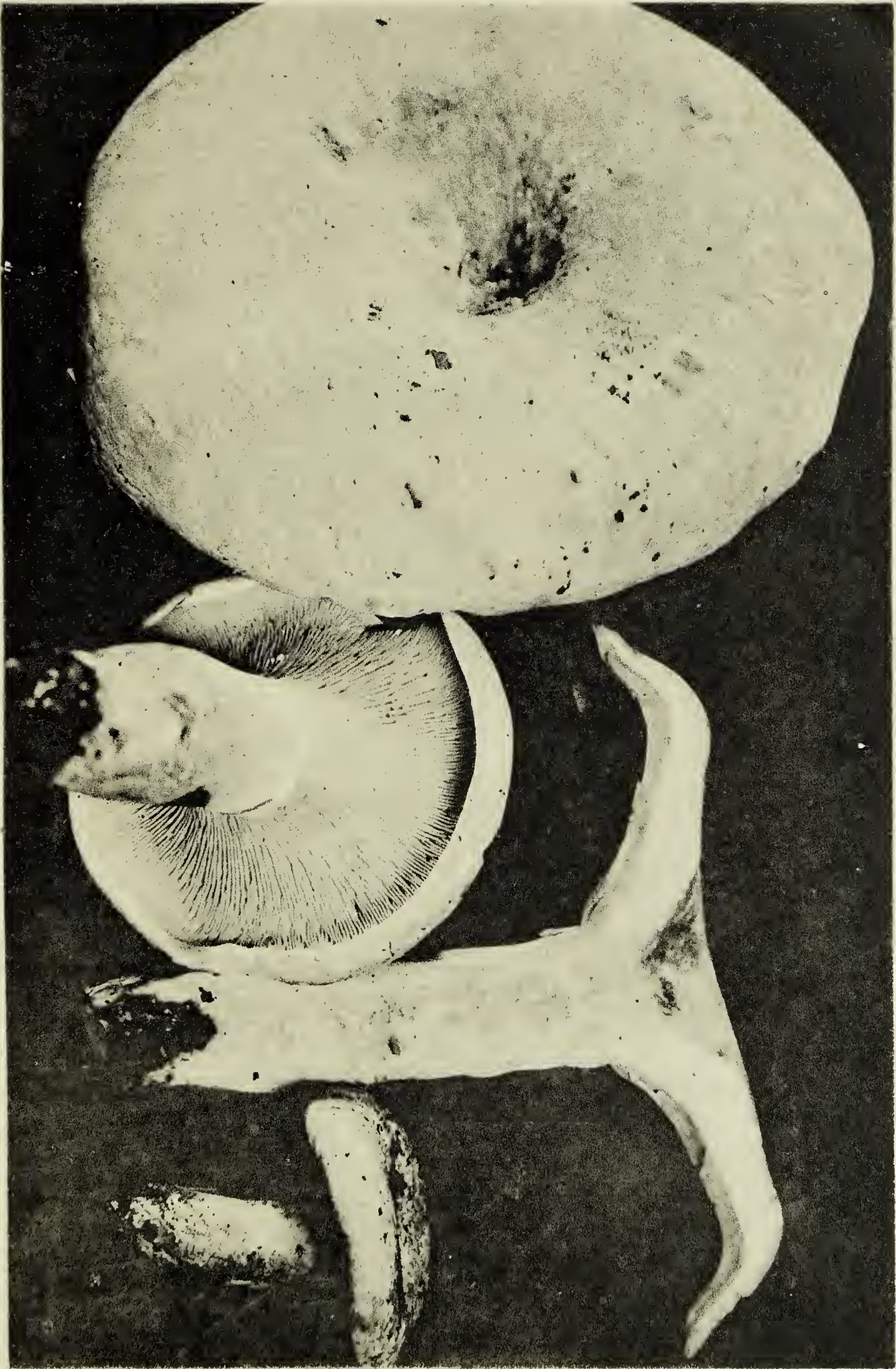
LENTINUS LEPIDEUS.

MARASMIUS URENS.





MARASMIUS CALOPUS.



LACTARIUS PIPERATUS.

LACTARIUS INSULSUS.





LACTARIUS DELICIOSUS.



LACTARIUS VOLEMUS.



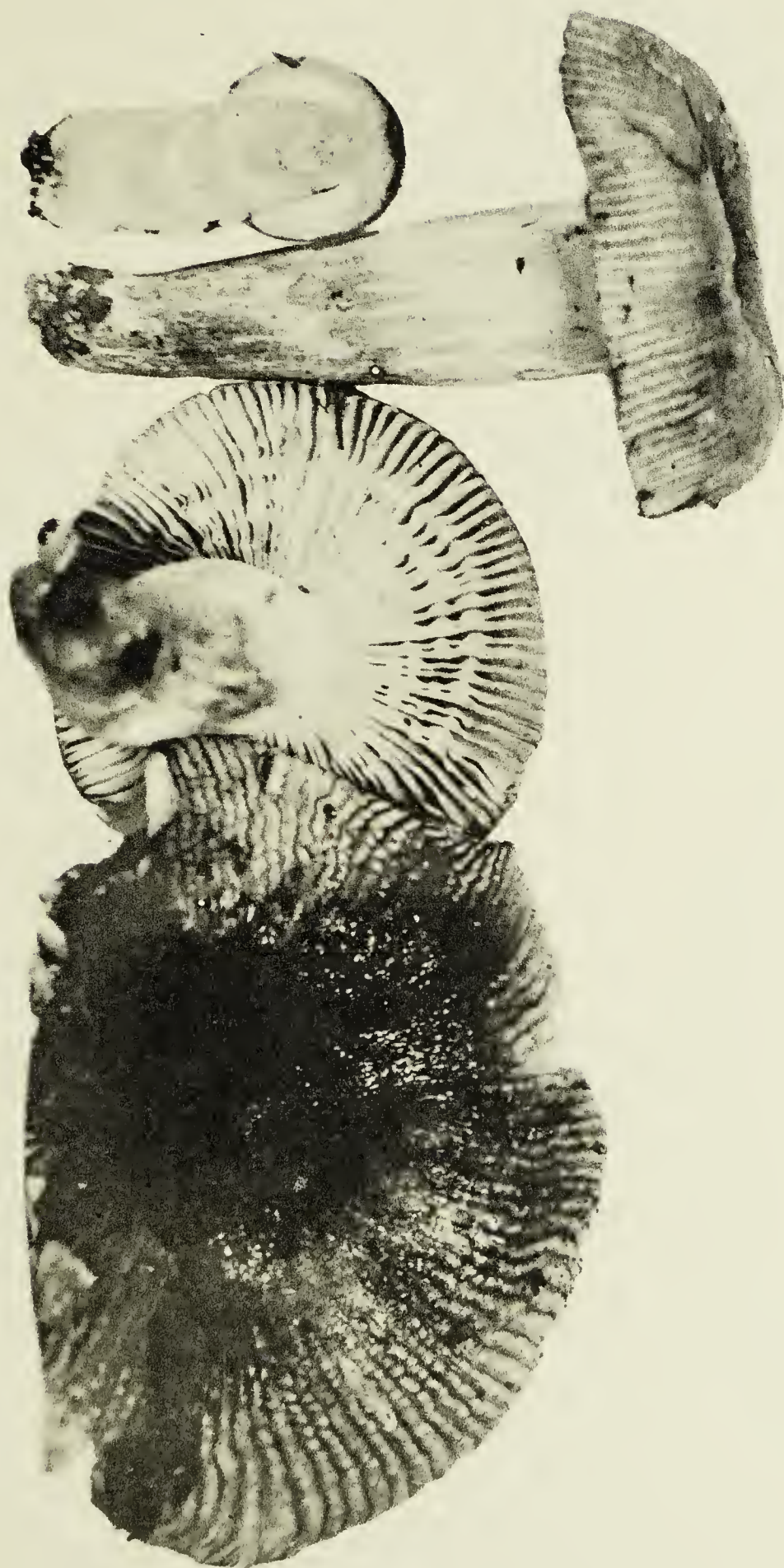
LACTARIUS CAMPHORATUS.

RUSSULA SORDIDA





RUSSULA OCHROLEUCOIDES.



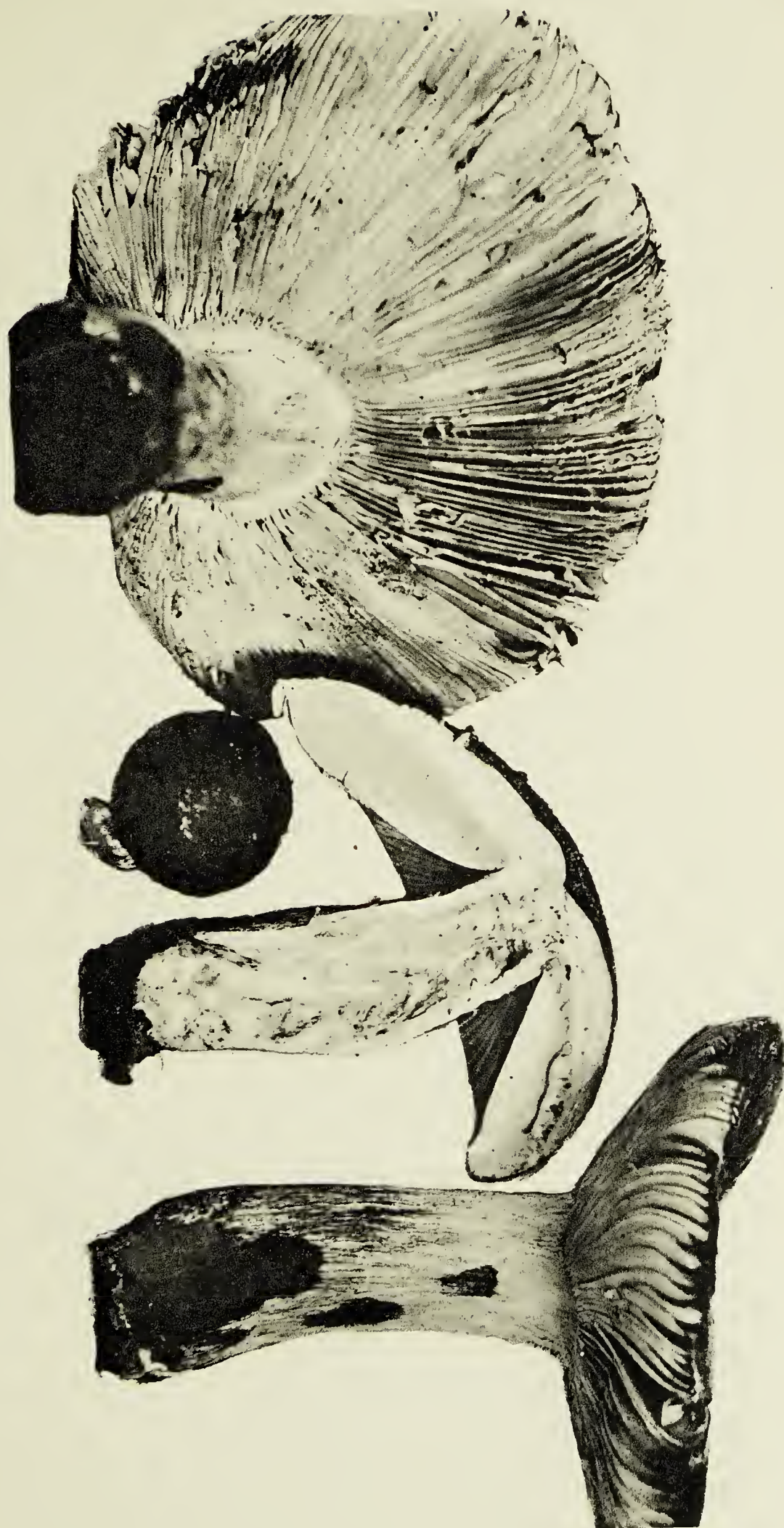
RUSSULA PULVERULENTA.



RUSSULA FOETENS.



RUSSULA MARIÆ.

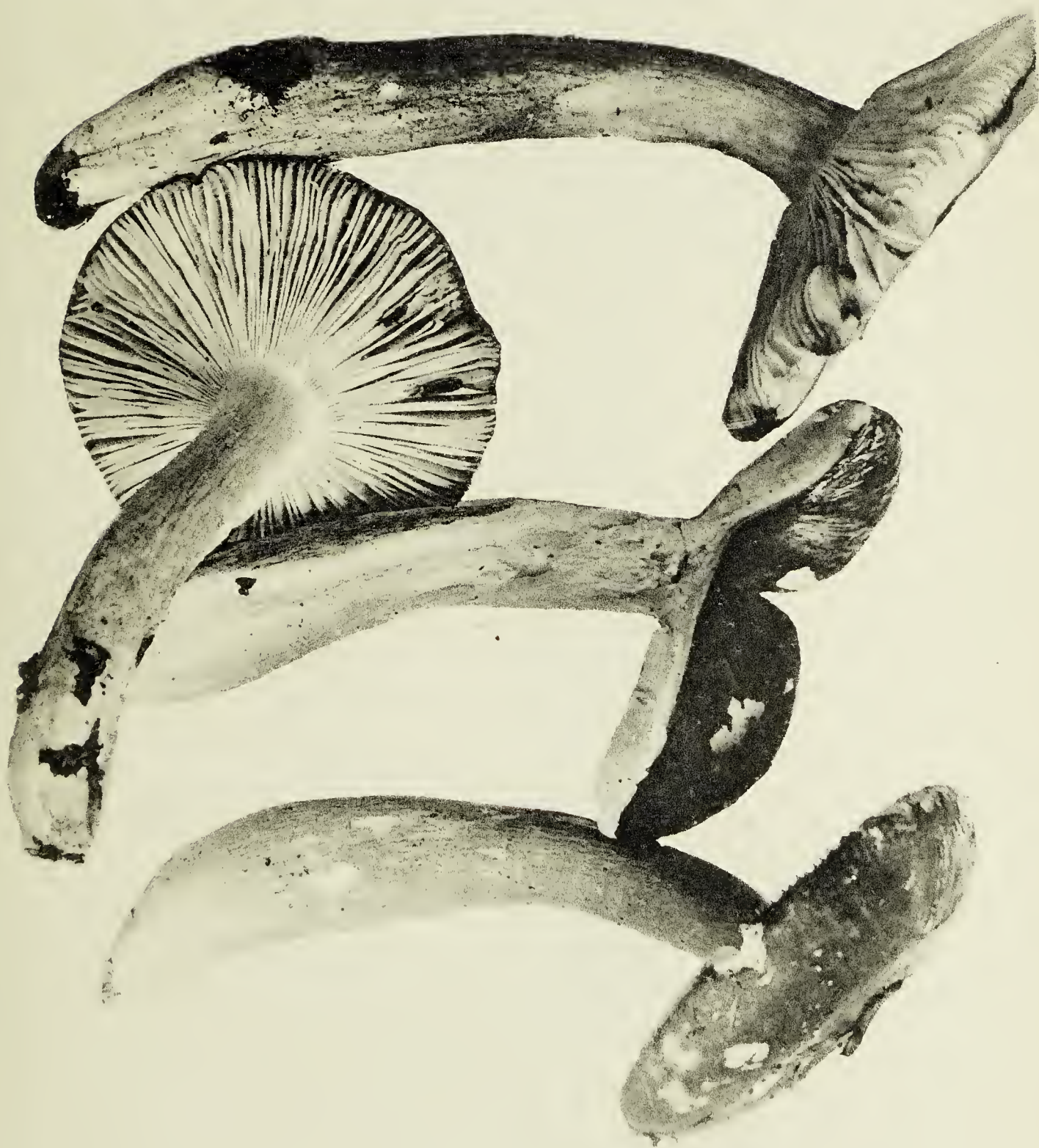


RUSSULA RUBESCENS.



RUSSULA TENUICEPS.

RUSSULA PURPURINA.





RUSSULA LUTEA.



GOMPHIDIUS MACULATUS.



HYGROPHORUS SPECIOSUS.





HYGROPHORUS RUSSULA.



HYGROPHORUS SORDIDUS.



HYGROPHORUS FUSCOALBUS VAR. OCCIDENTALIS.



HYGROPHORUS PALLIDUS.



HYGROPHORUS COLEMANNIANUS.

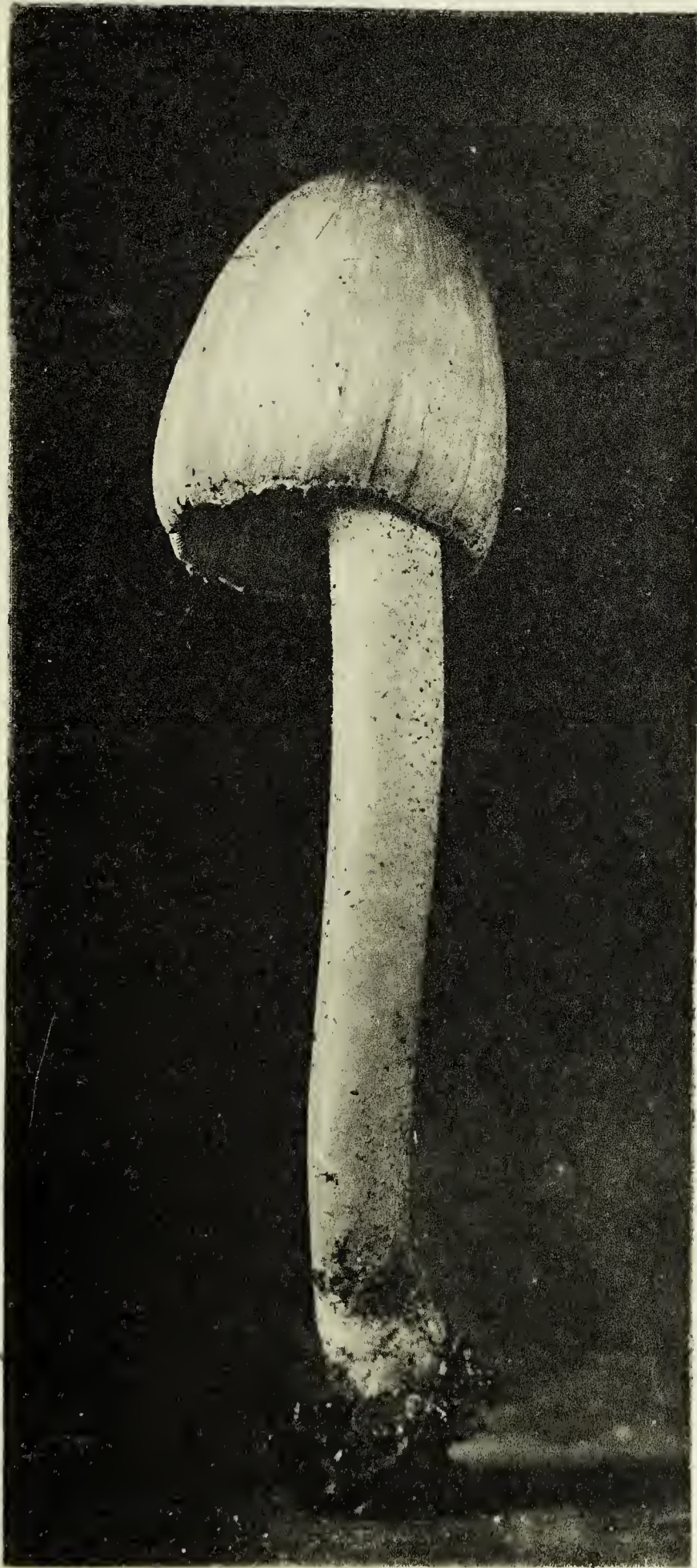


HYGROPHORUS COCCINEUS.



HYGROPHORUS MARGINATUS.





COPRINUS INSIGNIS.

COPRINUS QUADRIFIDUS.



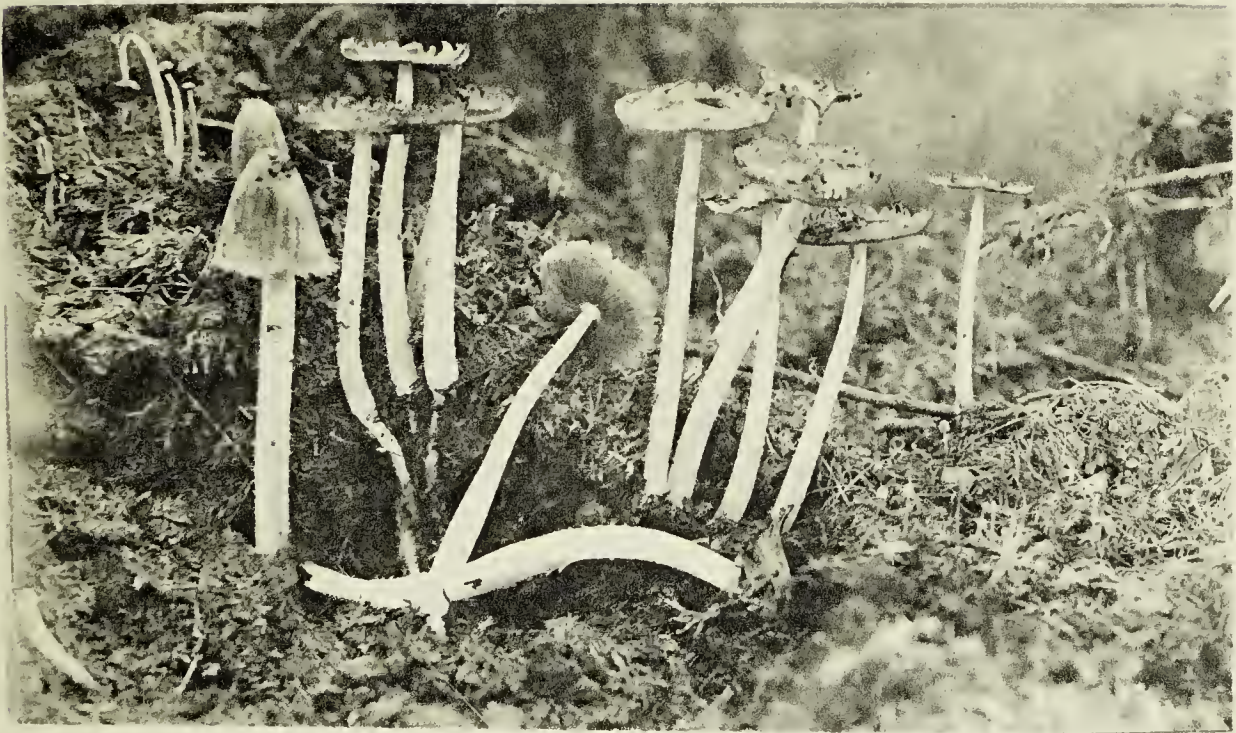


COPRINUS EBULLBOSUS.





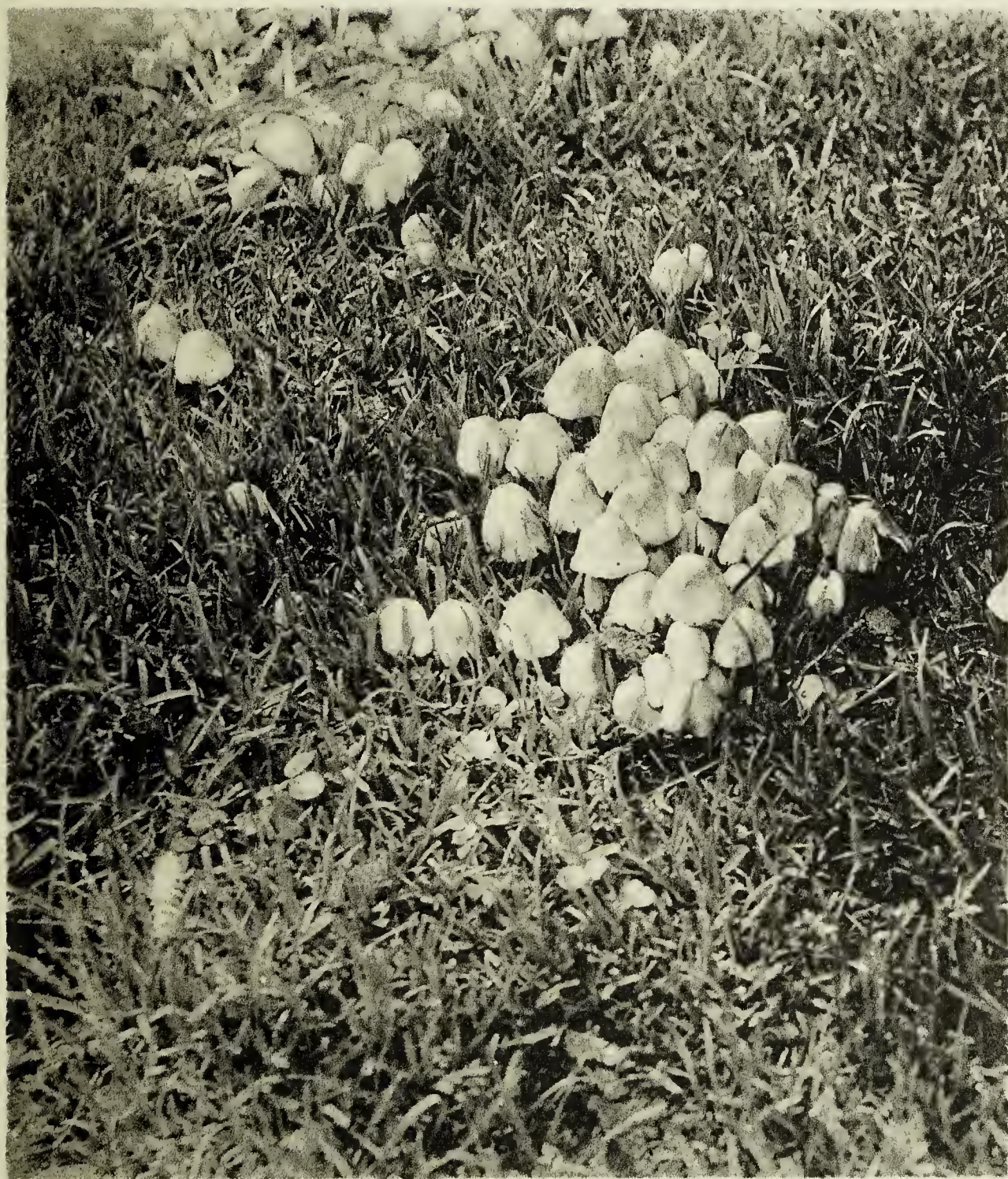
COPRINUS LANIGER.



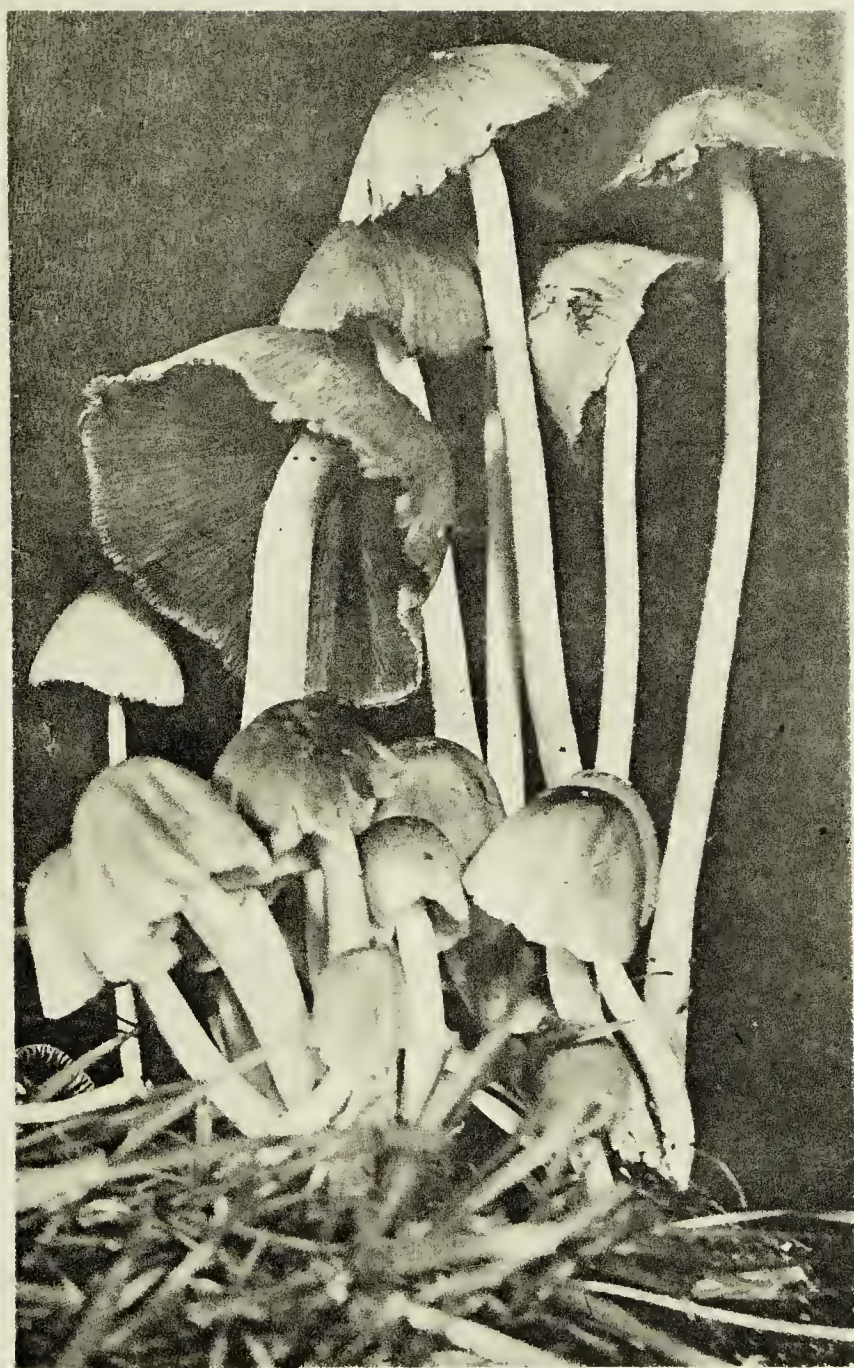
COPRINUS PIMETARIUS.



COPRINUS DOMESTICUS.



COPRINUS MICACEOUS.



COPRINUS MICACEOUS.



COPRINUS BULBILOSUS.



COPRINUS SCLEROTIGENUS.



COPRINUS SCLEROTIGENUS.

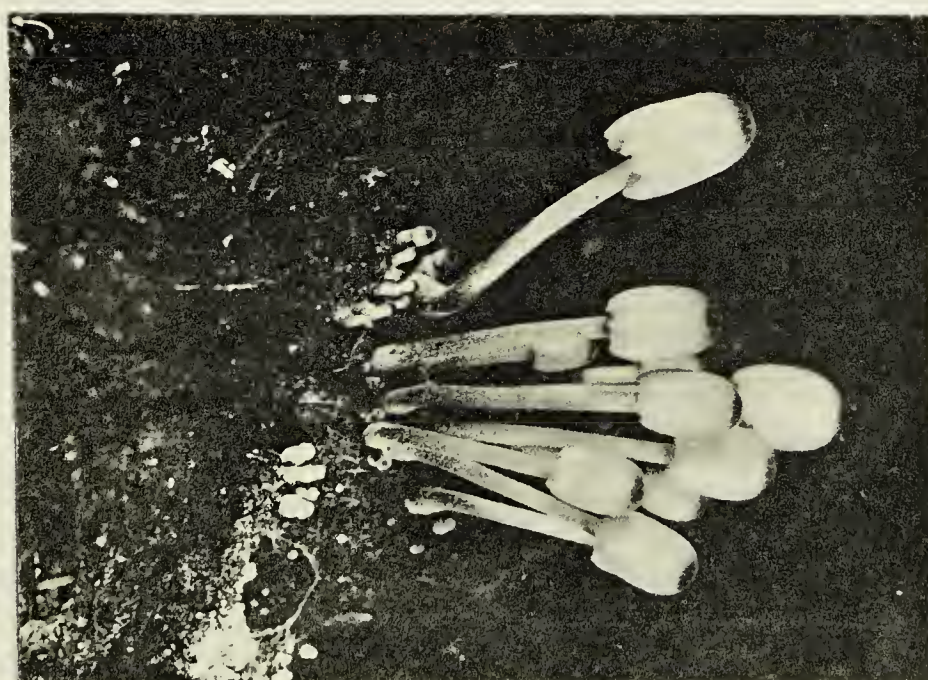


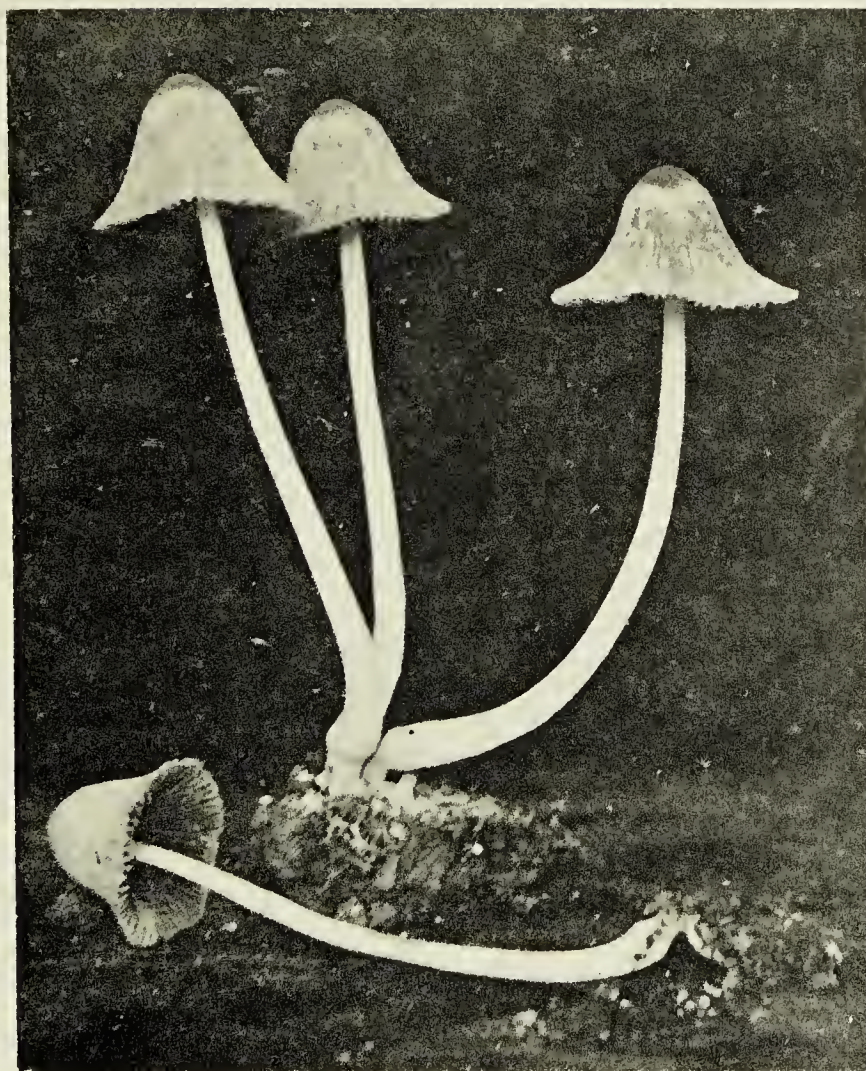
COPRINUS NARCOTICUS.

COPRINUS PATOUILLARDI.



COPRINUS EPIHEMERUS.





COPRINUS EPHEMERUS 2-spored



COPRINUS EPHEMERUS 2-spored



PANOEOLUS SOLIDIPES.



PSALLIOTIA RODMANI.

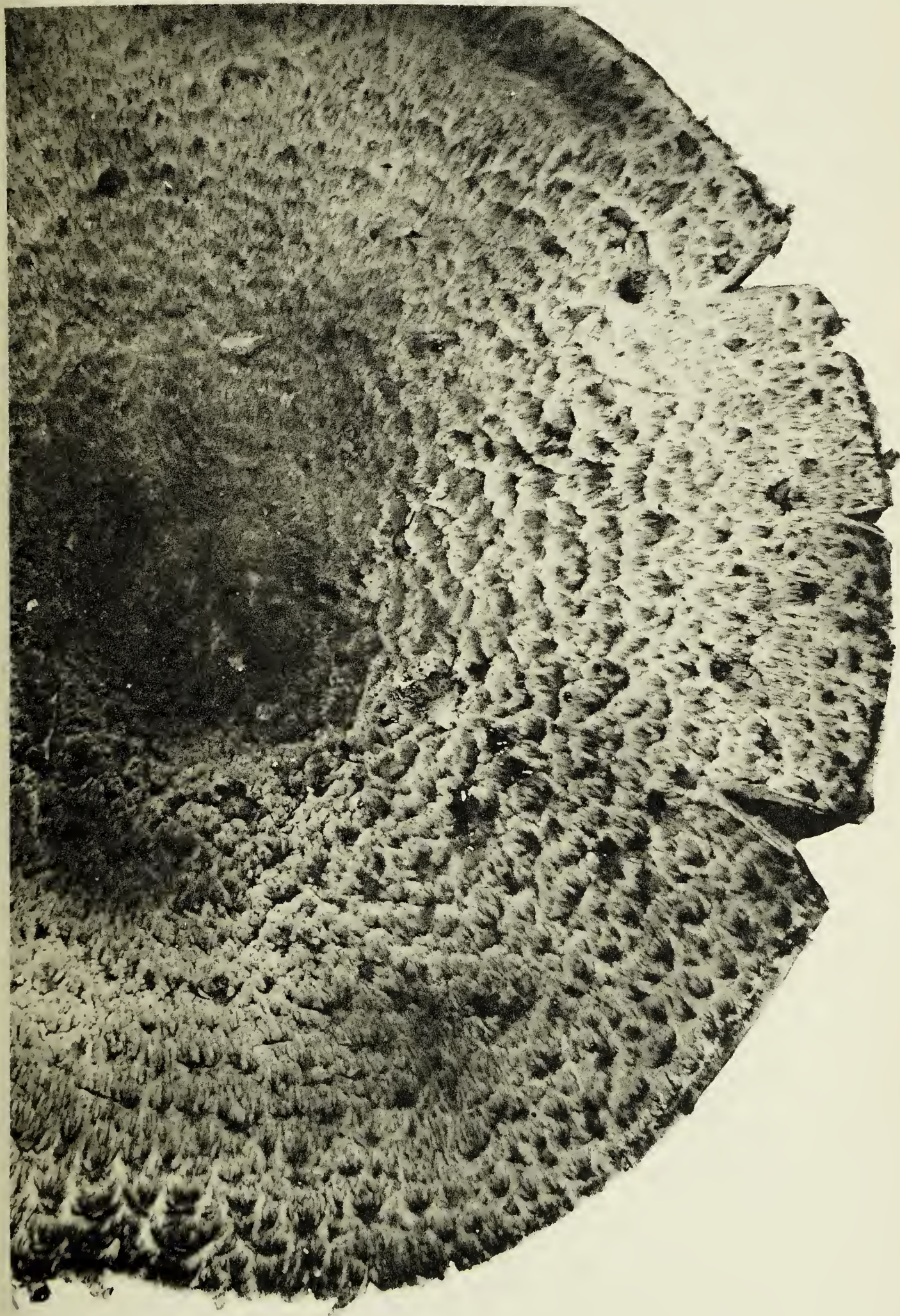




PSALLIOTA ARVENSIS.



PSALLIOTA ABRUPTIBULBA.





PSALLIOTA SUBRUFESCENS.



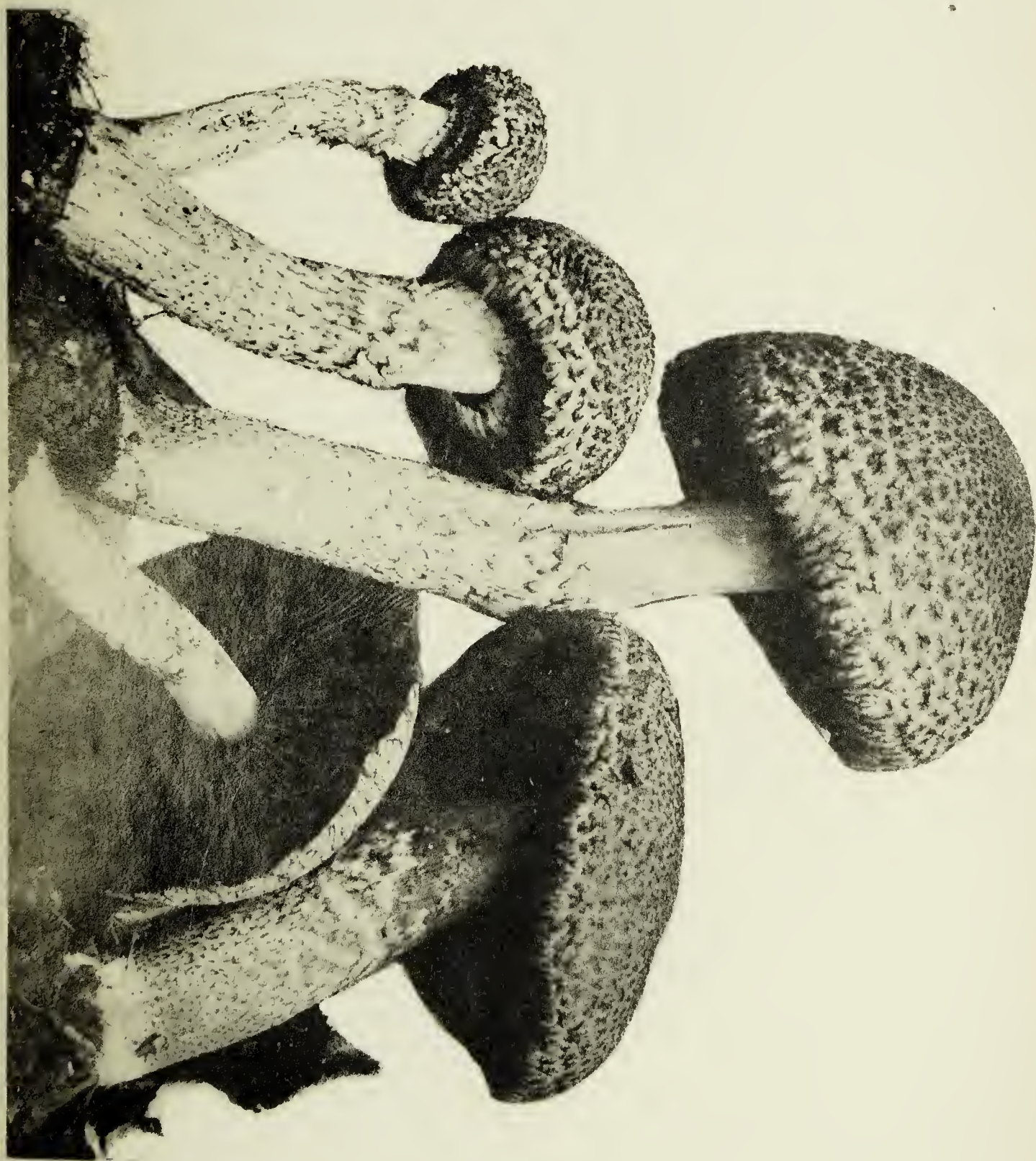
PSALLIOTA SUBRUFESCENS.



PSALLIOTA DIMINUTIVA.





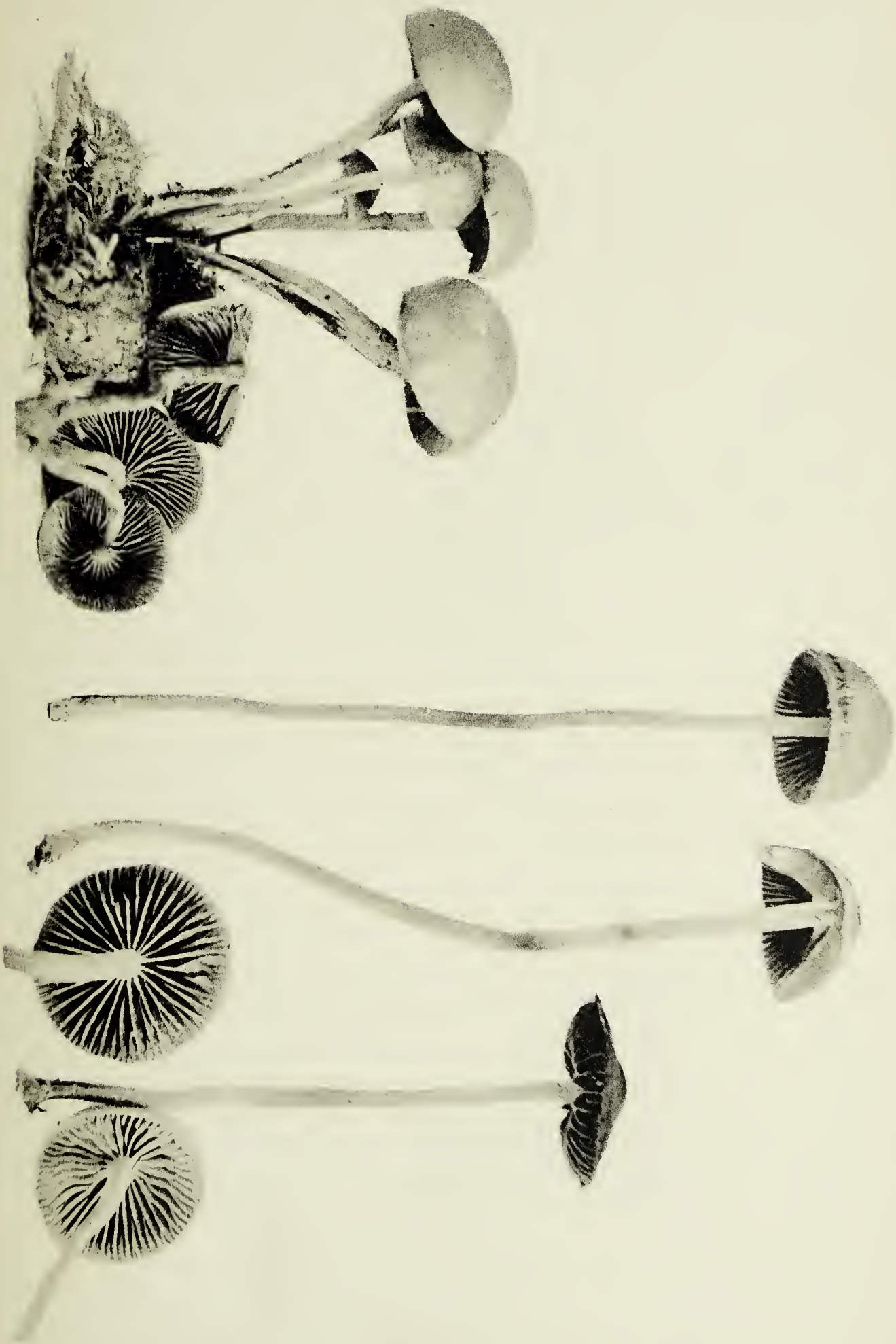




HYPHOLOMA INCERTUM,

PSILOCYBE FOENISECII.

PSILOCYBE SP., PSATHYRA SP., AND TUBARIA SP.





PSILOCYBE ATROBRUNNEA.

PSATHYRA UMBONATA.



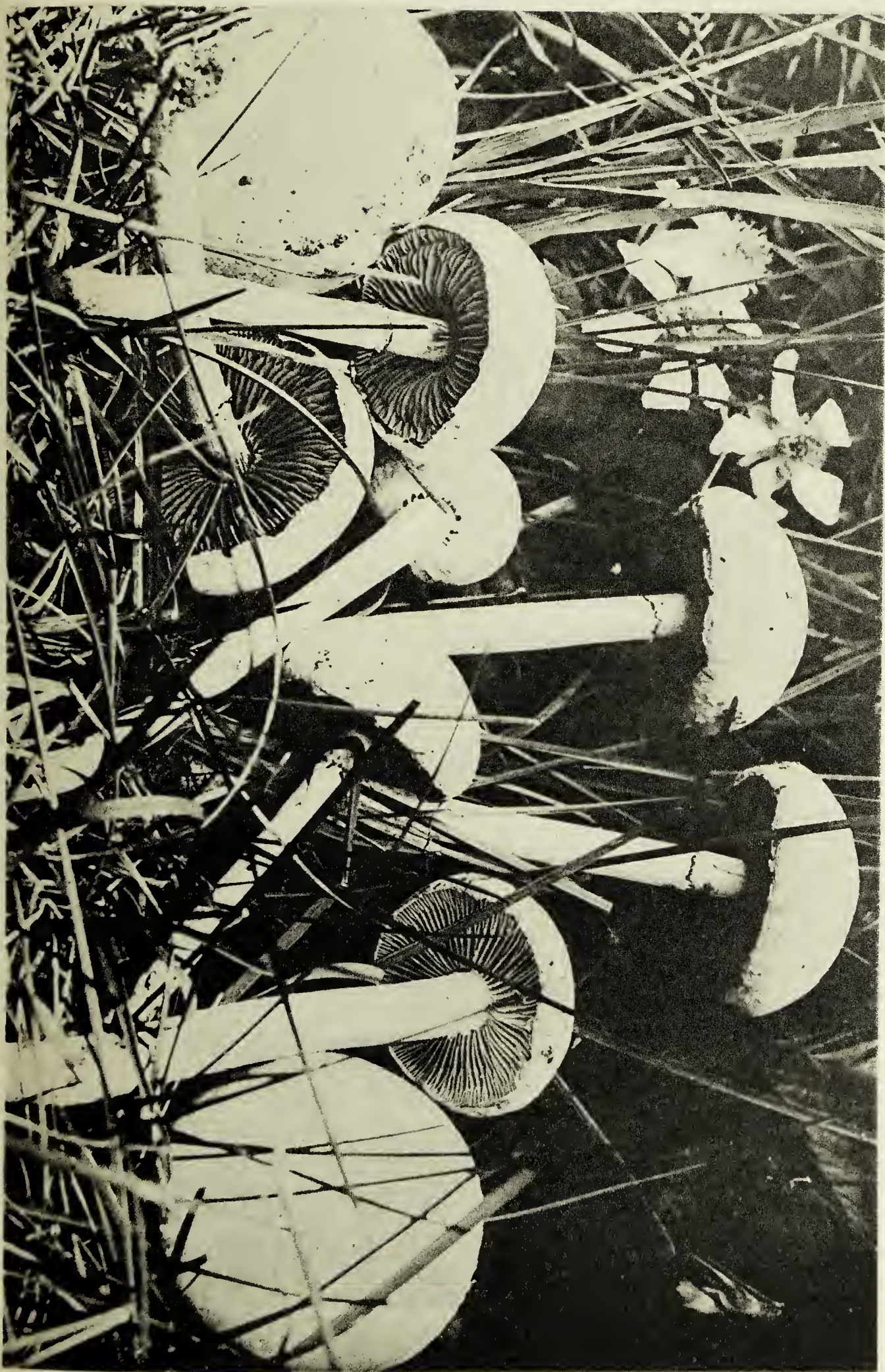
PSILOCYBE LARCA.

Deadly Mushroom Is Enjoyed by Squirrel

Poisonous mushrooms seem to have no terrors for the lively red squirrel of the woods, according to Robert T. Hatt of the biology department of New York university. He noticed during his researches in the field that red squirrels fed freely on two poisonous species, and that they seemed to prefer them also when they came to store food for the winter. Incredulous, he tried mushroom diets on caged red squirrels, and found that they selected the same two species out of a variety of edible fungi offered to them. The poisonous mushrooms are the so-called fly agaric, *Amanita muscaria*, which is reputed to be almost invariably fatal to human beings and is sometimes used as a fly poison, and a reddish-colored species known as *Russula emetica*, which has a disagreeable peppery taste and if eaten raw will provoke violent vomiting. The reason for the immunity enjoyed by the squirrels is as great a riddle as their apparent preference for these two toxic species.



PSILOCYBE CERNUA.





PHOLIOTA DESTRUENS



PHOLIOTA SPECTABILIS.





CORTINARIUS MUCIFLUUS.



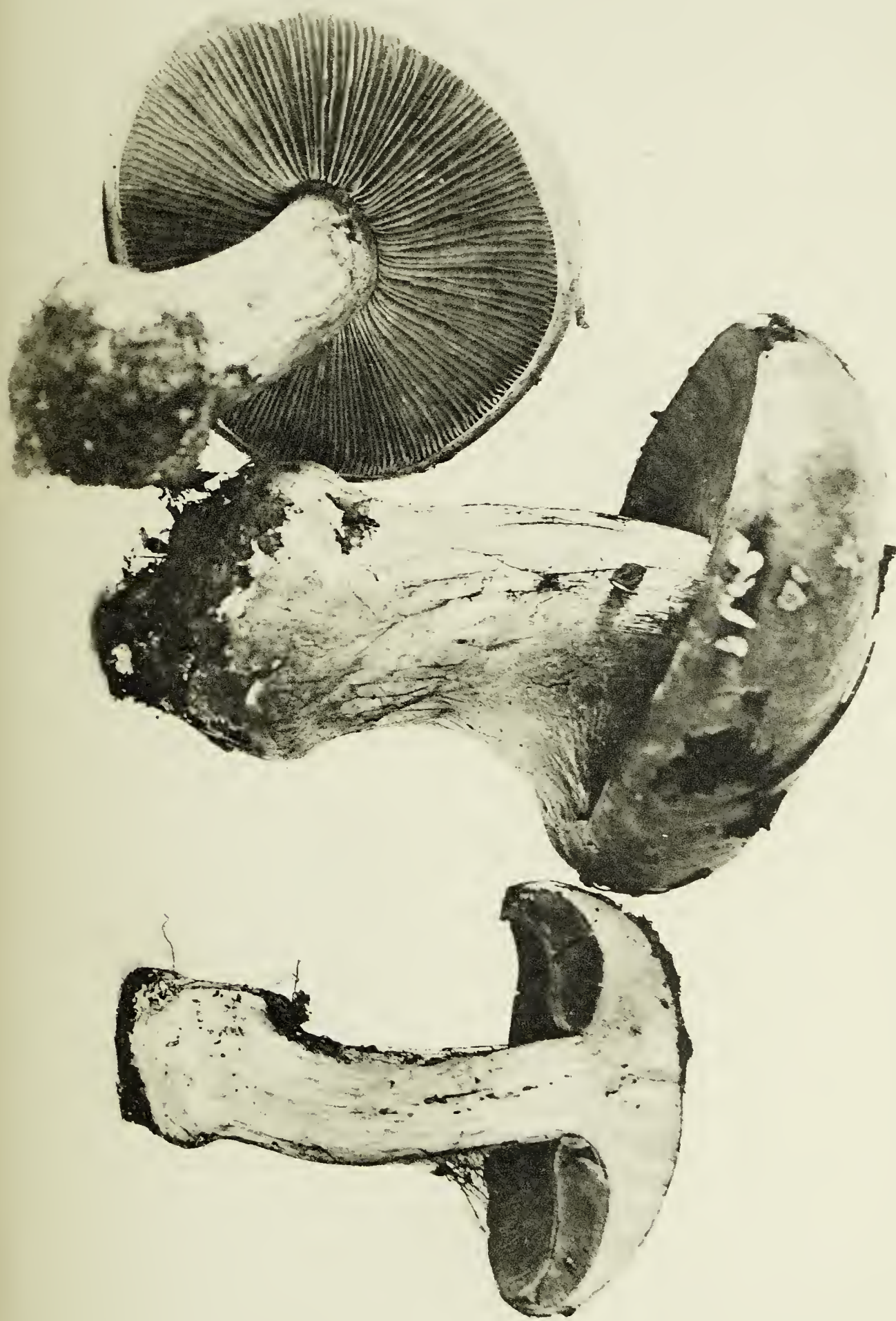
CORTINARIUS CYLINDRIPES.



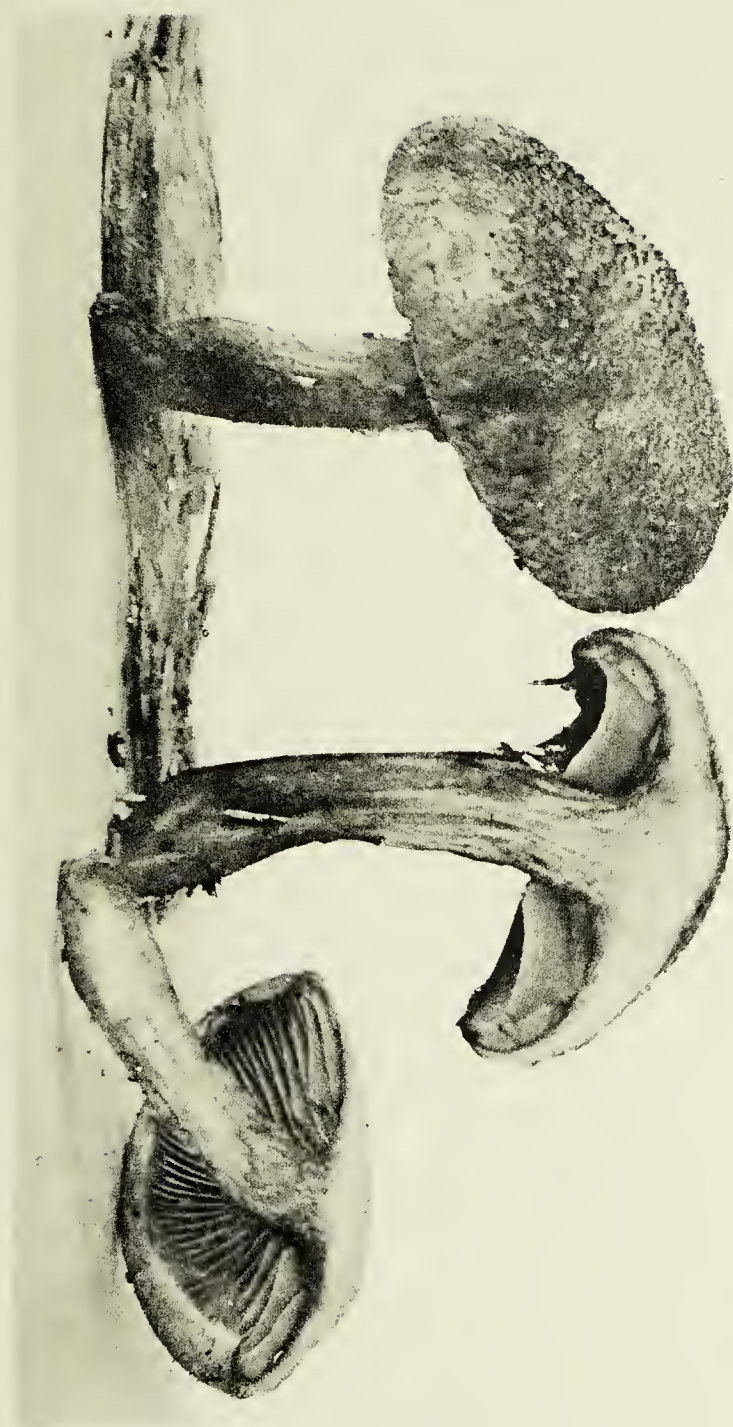
CORTINARIUS SPHAEROSPORUS.



CORTINARIUS IODEOIDES.



CORTINARIUS ATKINSONIANUS.





CORTINARIUS ELEGANTIOIDES.

CORTINARIUS SPHOEROSPERMA.

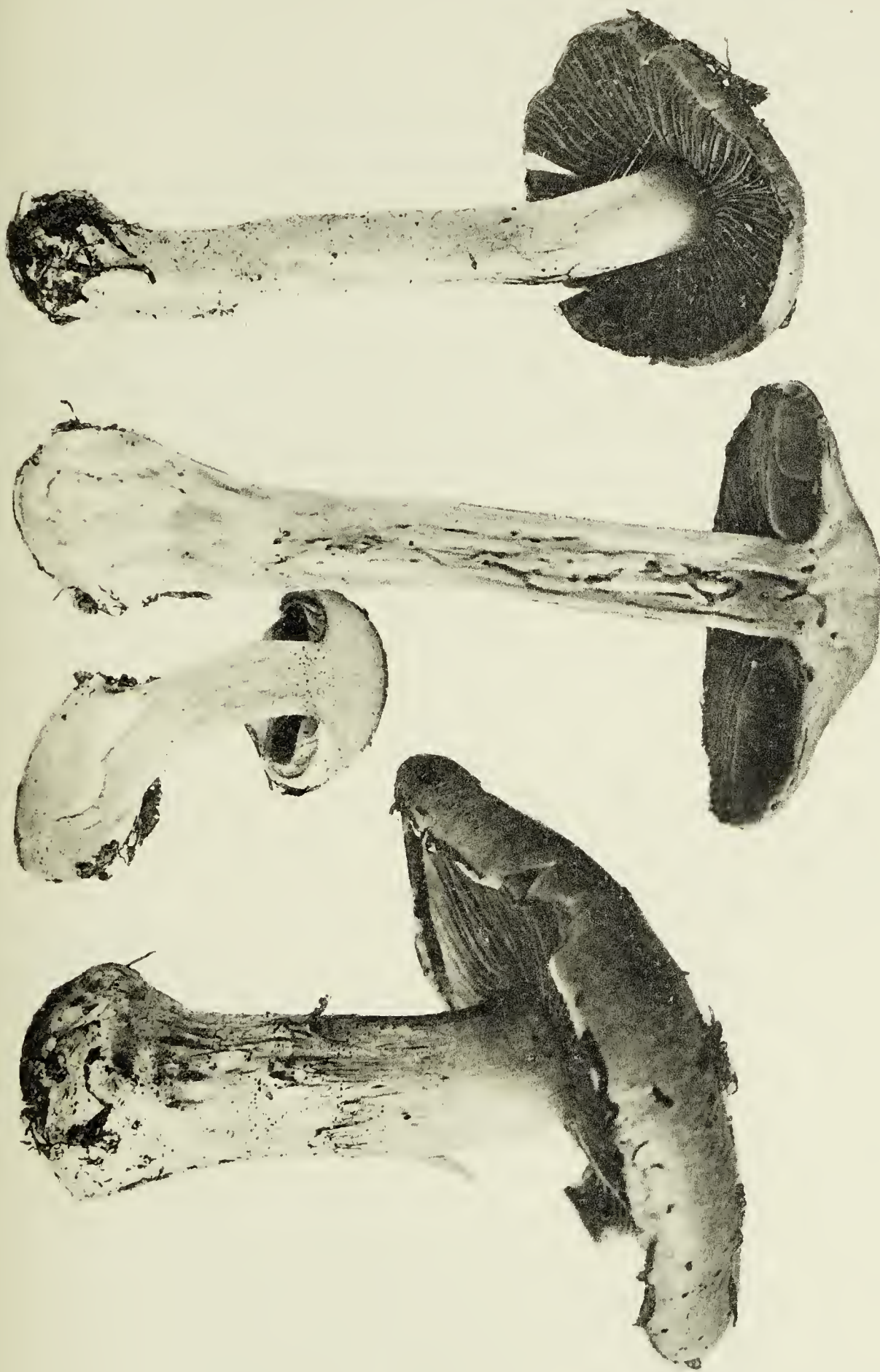




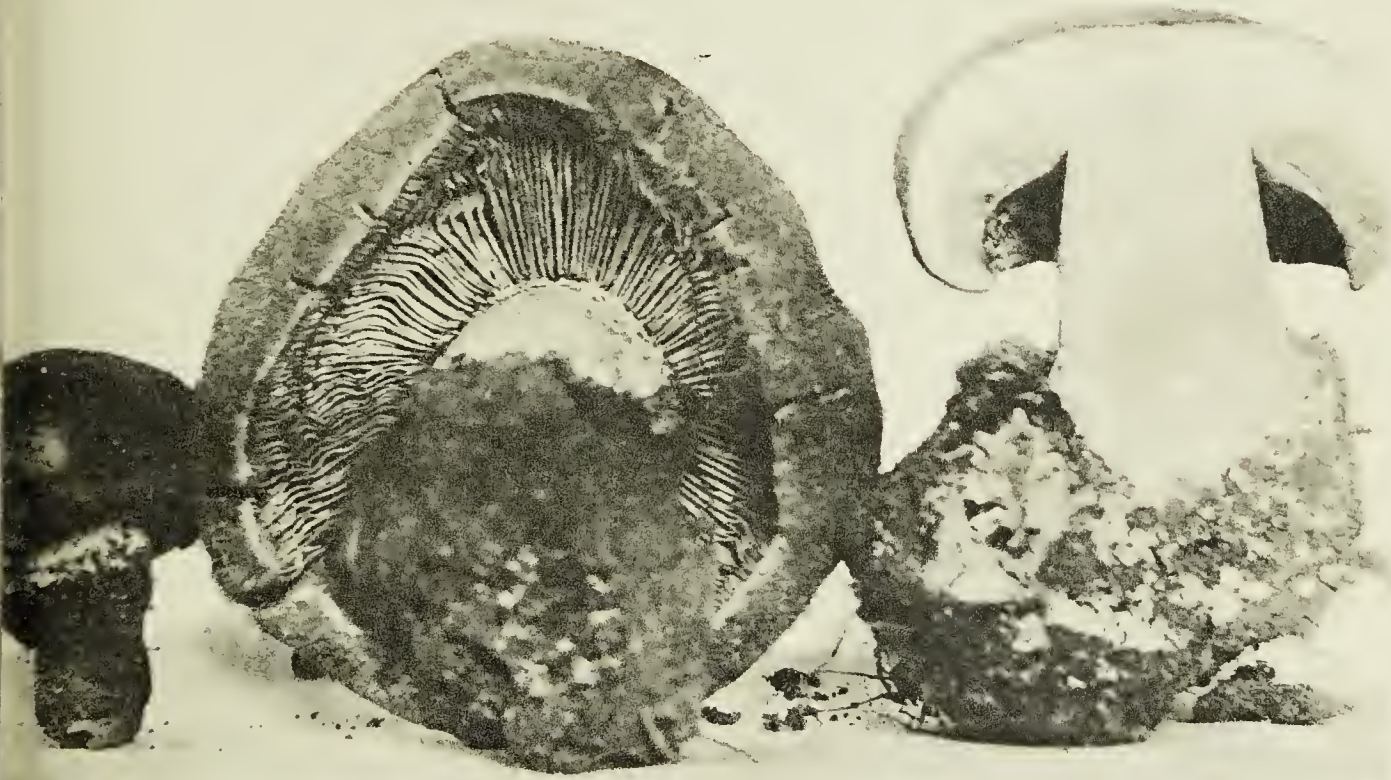
CORTINARIUS PURPURASCENS.



CORTINARIUS FULMINEUS VAR. SULPHUREUS



CORTINARIUS MULTIFORMIS.



CORTINARIUS INTRUSUS.



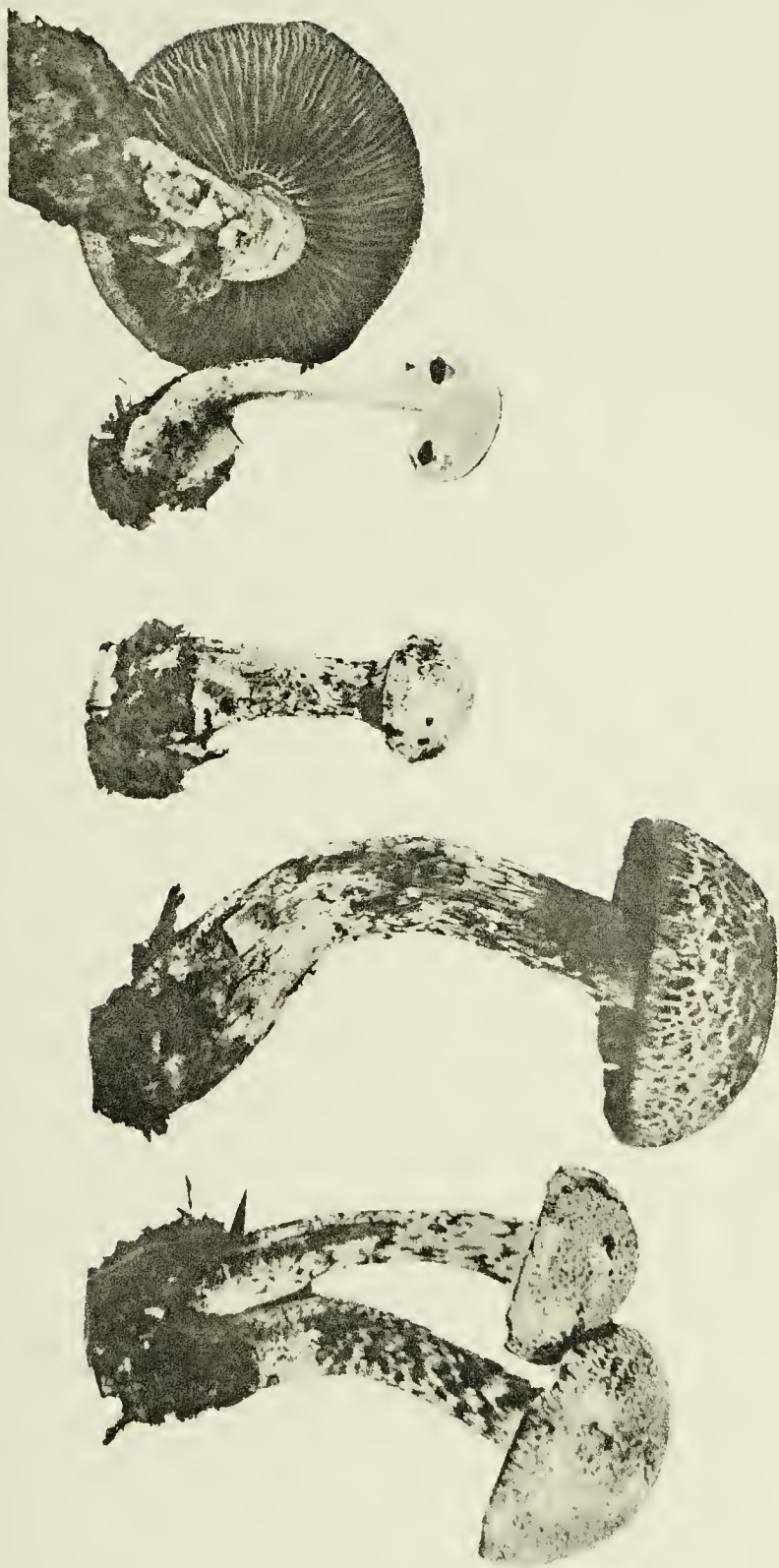
CORTINARIUS INFRACTUS.



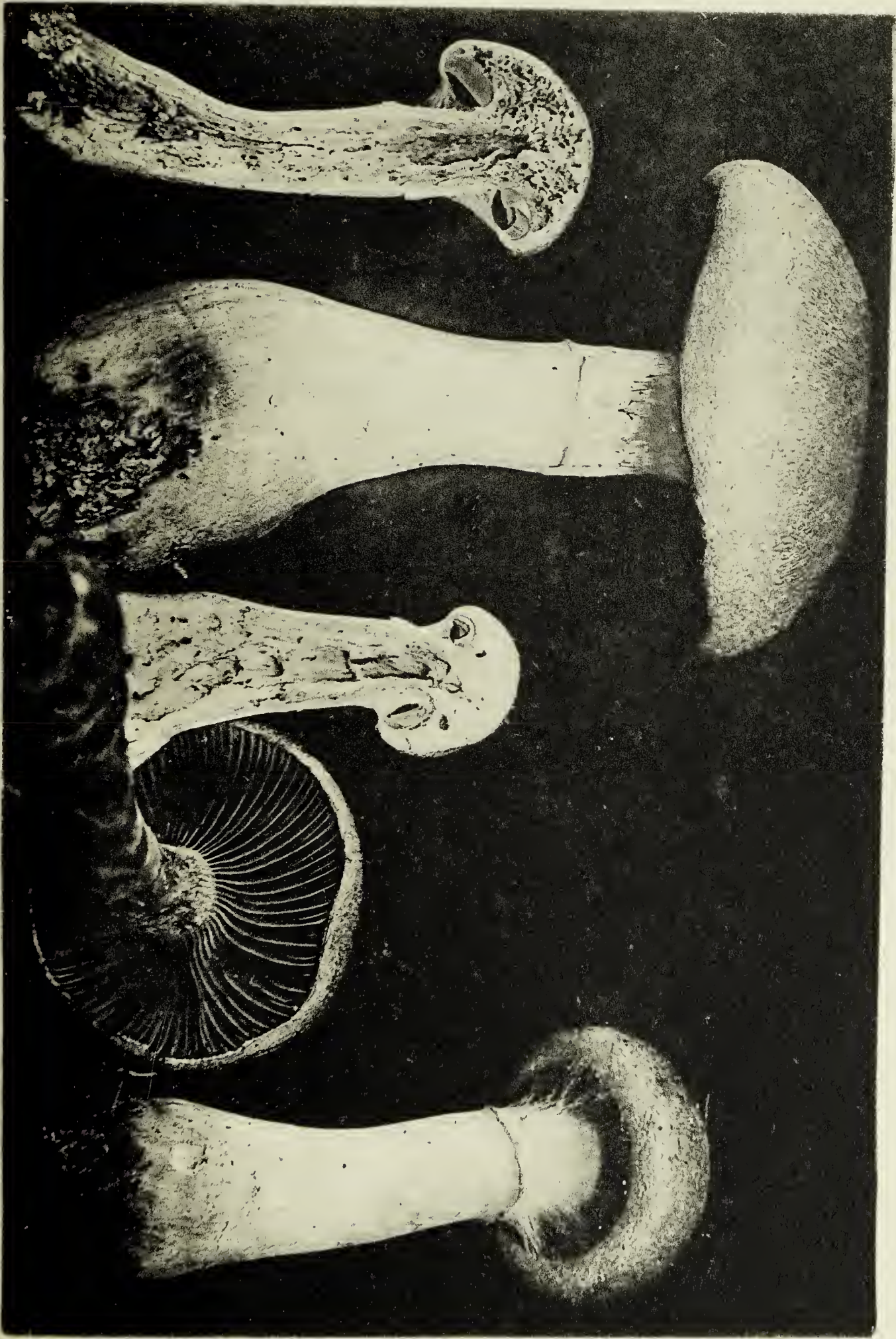


CORTINARIUS SUBPULCHRIFOLIUS.

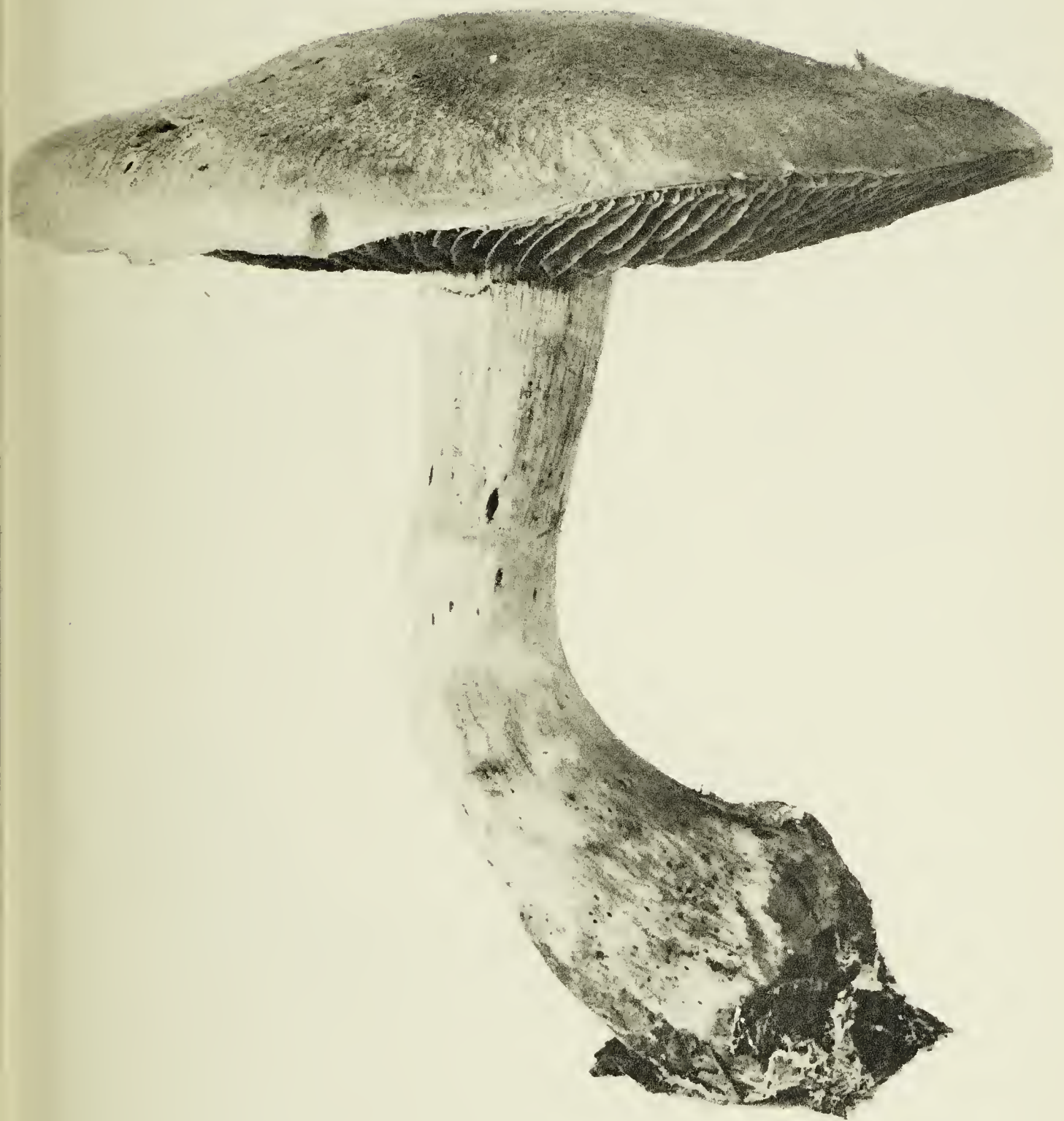




CORTINARIUS BOLARIS.



CORTINARIUS ANNULATUS.



CORTINARIUS FLAVIFOLIUS.



CORTINARIUS FLAVIFOLIUS.



CORTINARIUS CROCEOCOLOR.





CORTINARIUS TORVUS.



CORTINARIUS DECEPTIVUS.



CORTINARIUS ARMILLATUS.



CORTINARIUS ARMILLATUS.



CORTINARIUS BADIUS



CORTINARIUS LIGNARIUS





CORTINARIUS PALEACEUS.





INOCYBE CALOSPORA



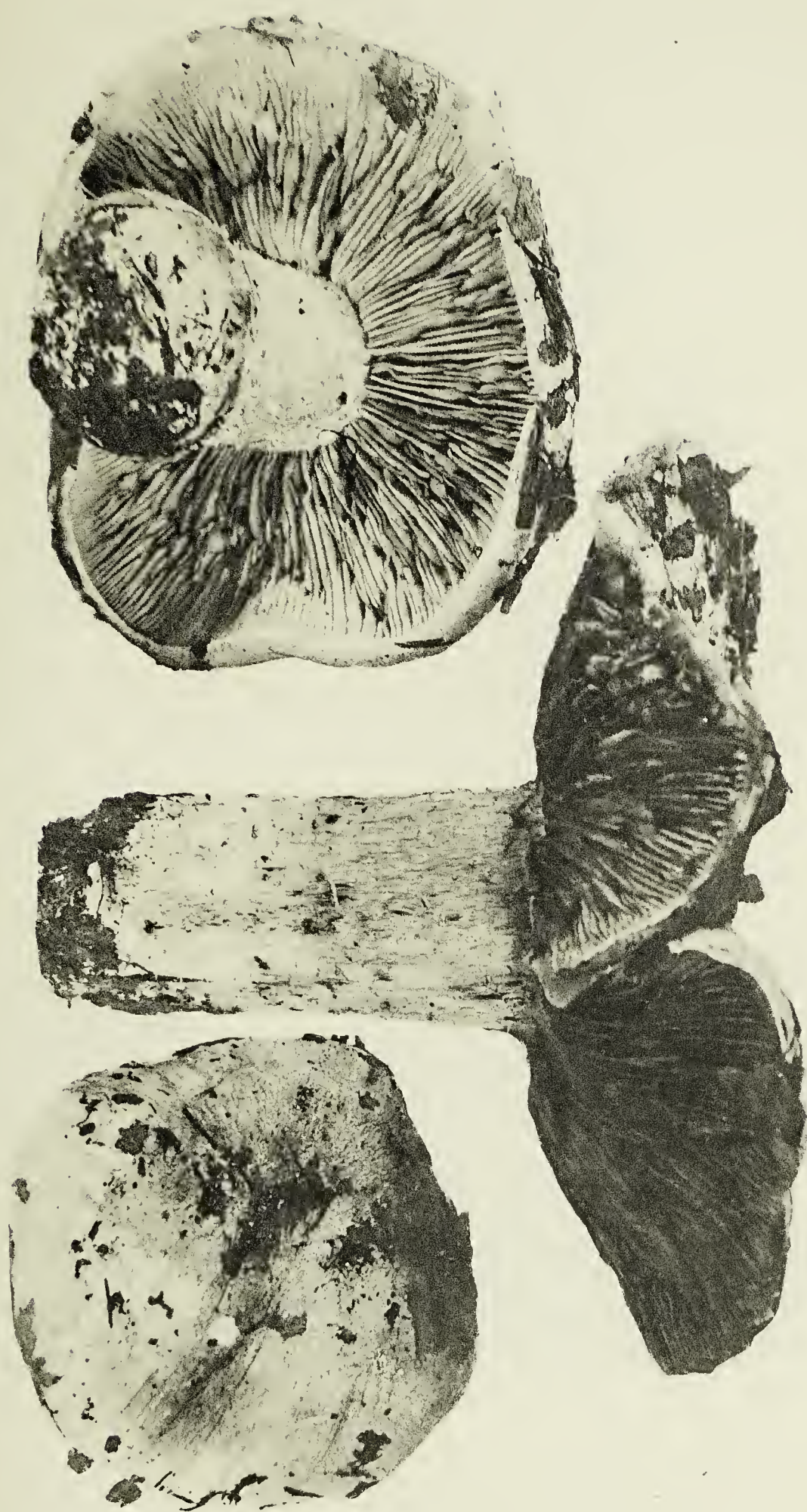


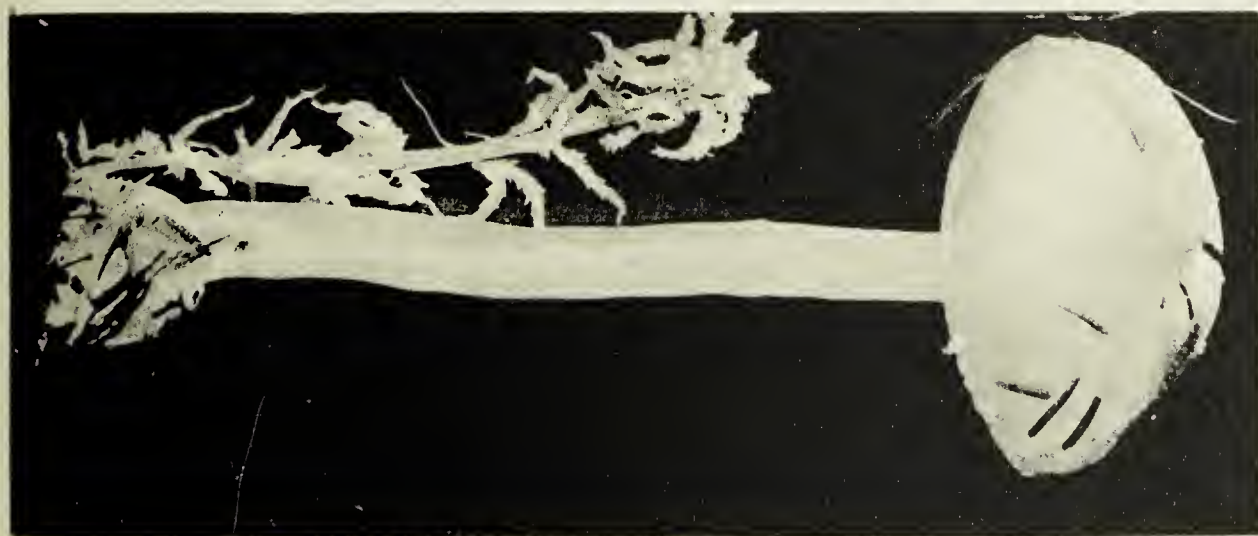
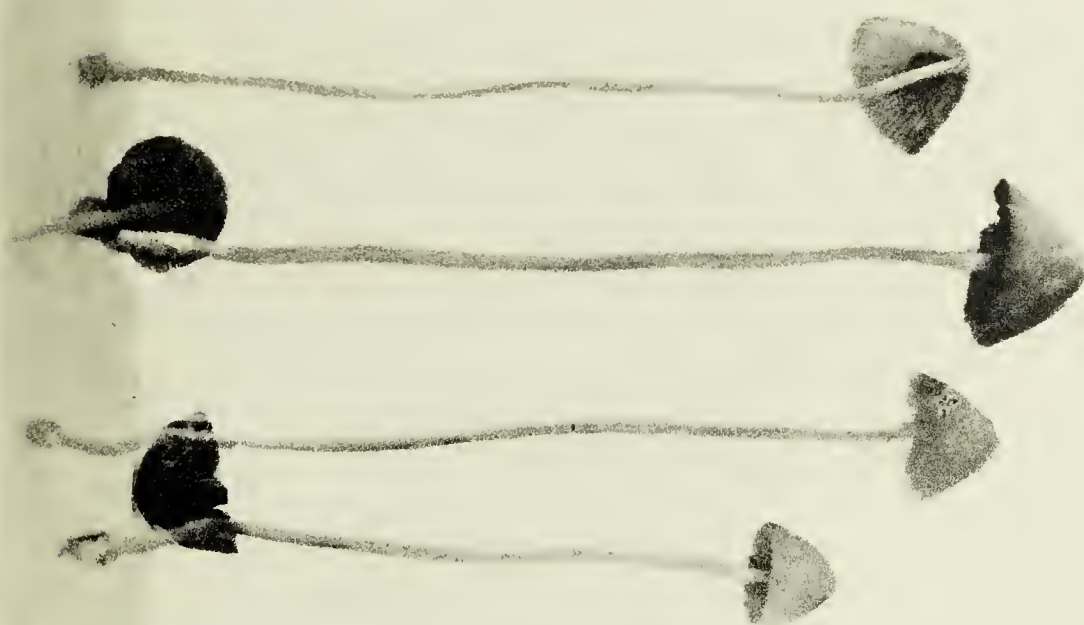


INOCYBE FIBROSA.



INOCYBE REPANDA.

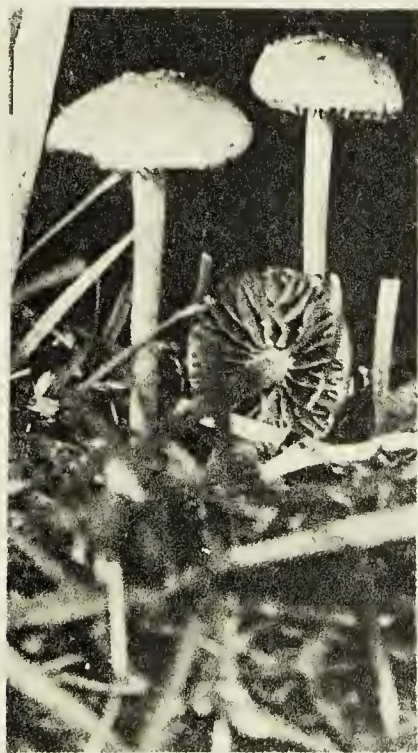




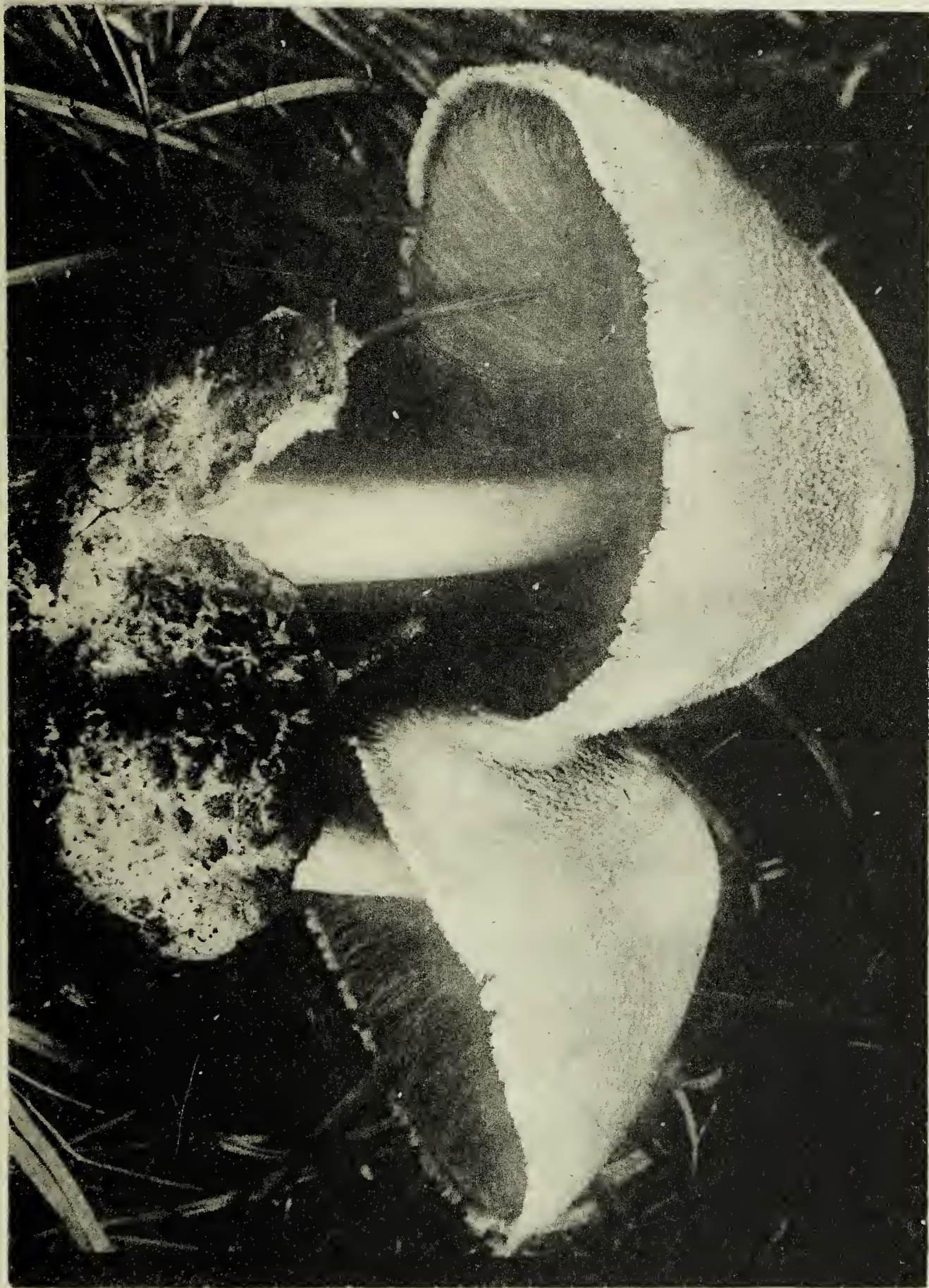


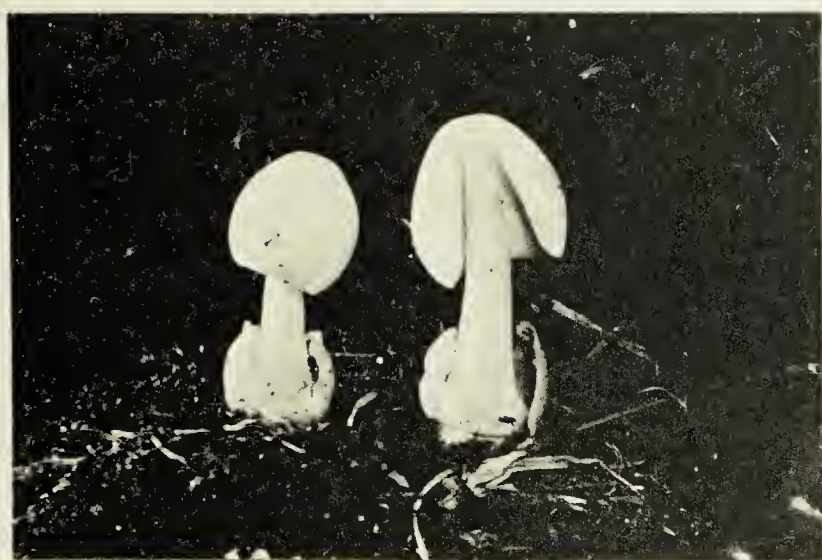


PLUTEOLUS RETICULATUS.

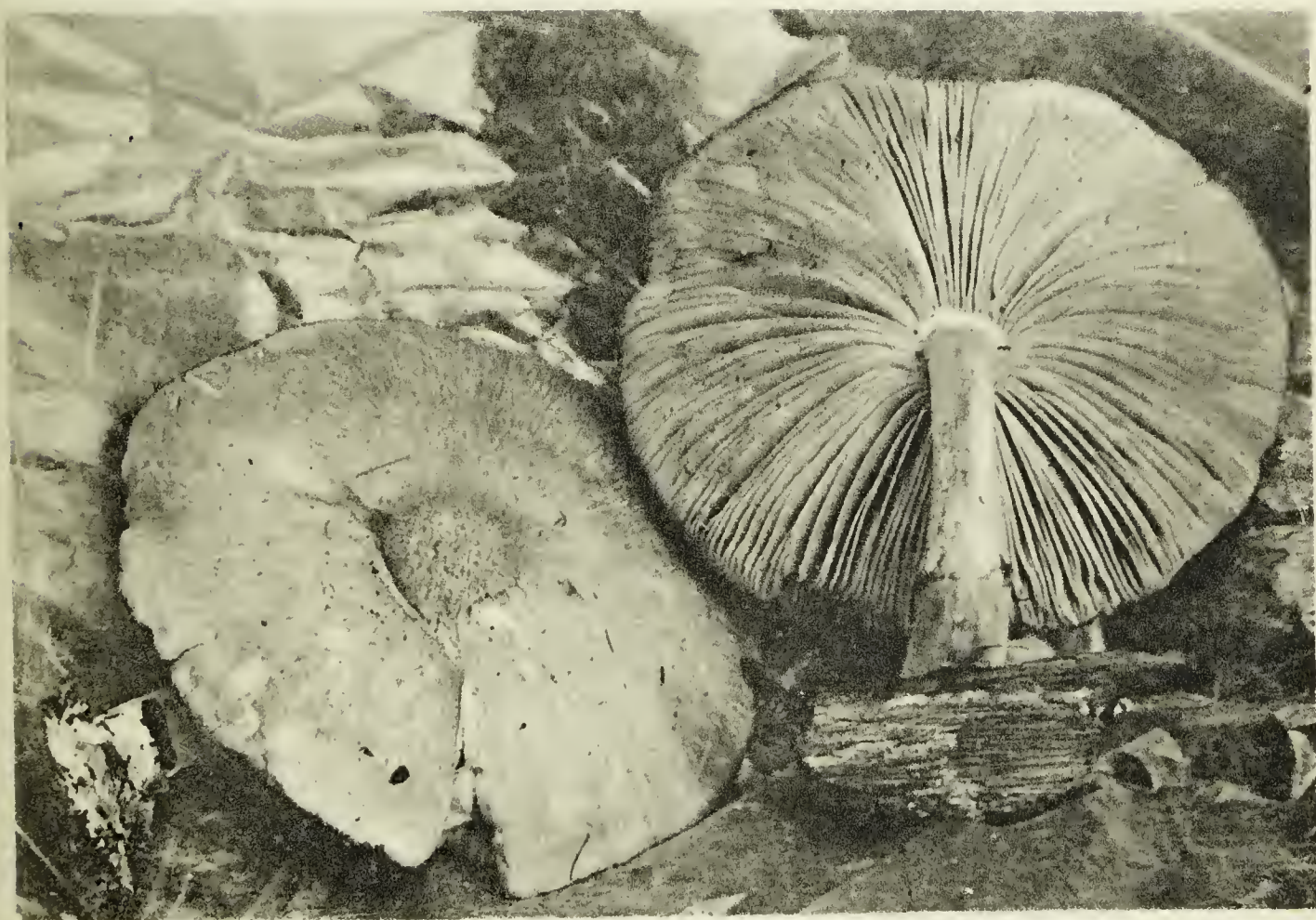


NAUCORIA SEMIORBICULARIS

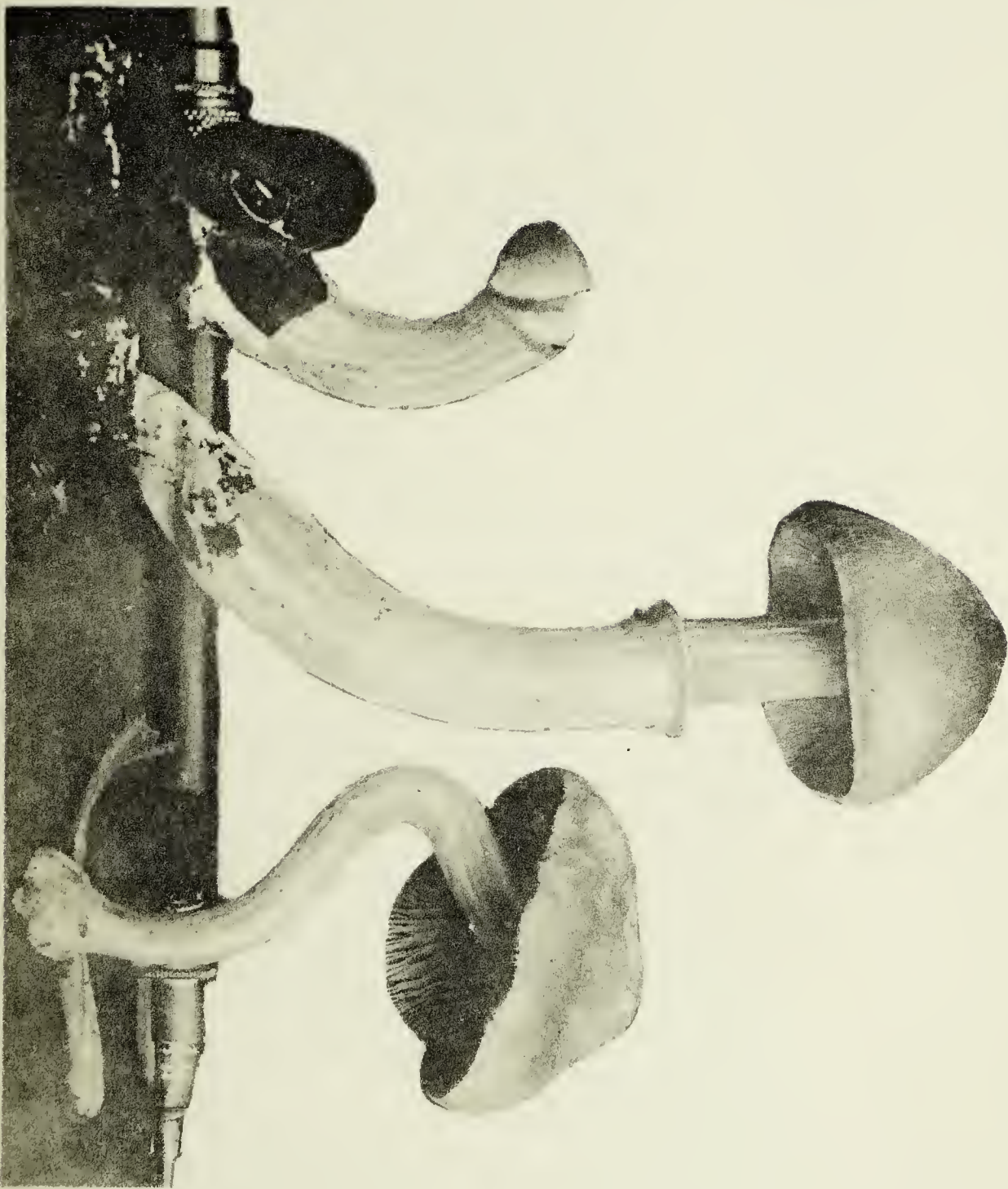




VOLVARIA PUSILLA.



CHAMAEOTA SPHAEROSPORA.





PLUTEUS CERVINUS.







ENTOLOMA SERICEUM.



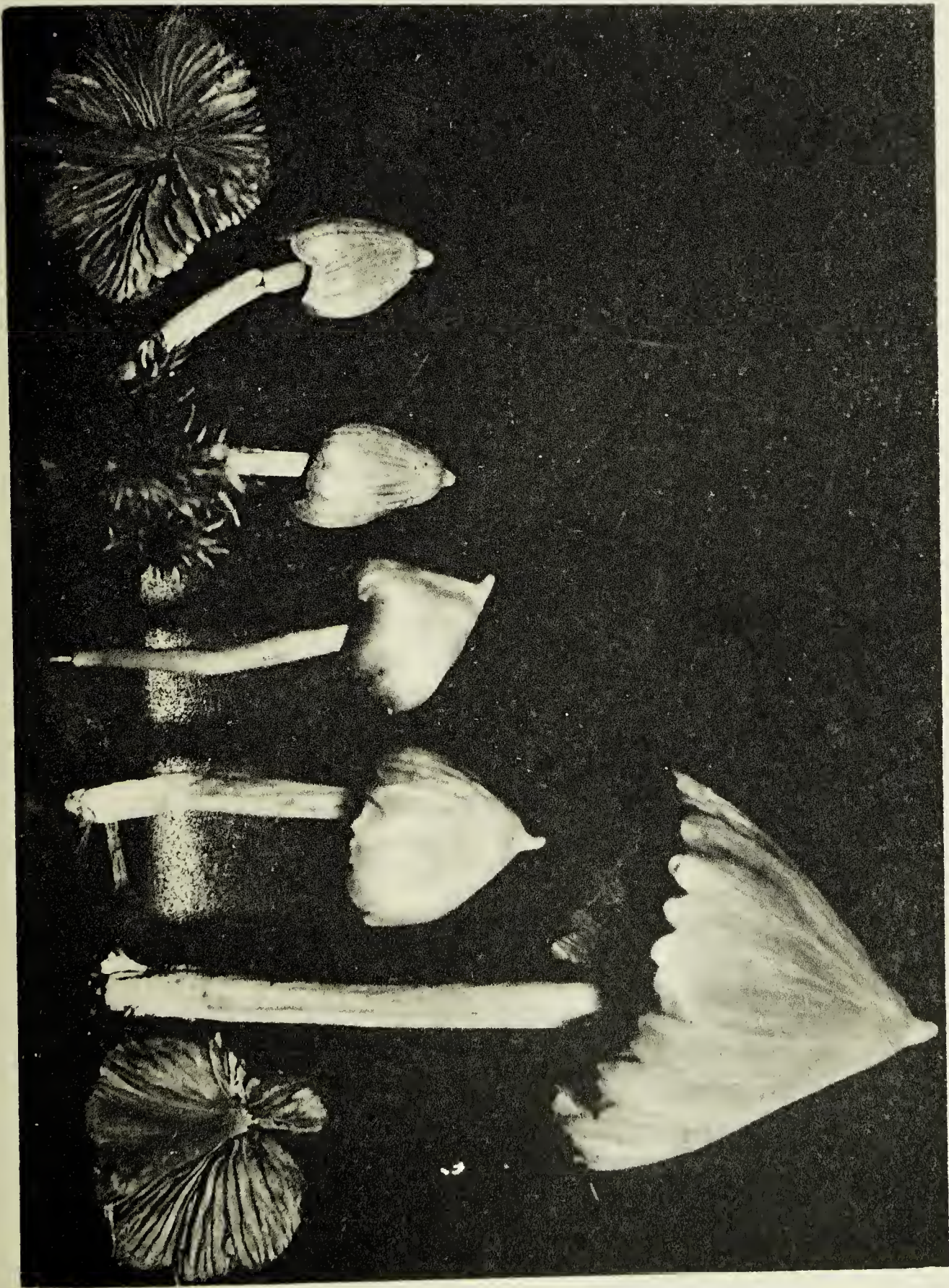
ENTOLOMA STRICTUS.



ENTOLOMA GRAYANUM.



ENTOLOMA SPECULUM.



ENTOLOMA CUSPIDATUM.





CLITOPILUS CAESPITOSUS.



CLITOPILUS CAESPITOSUS.



LEPTONIA PLACIDA.



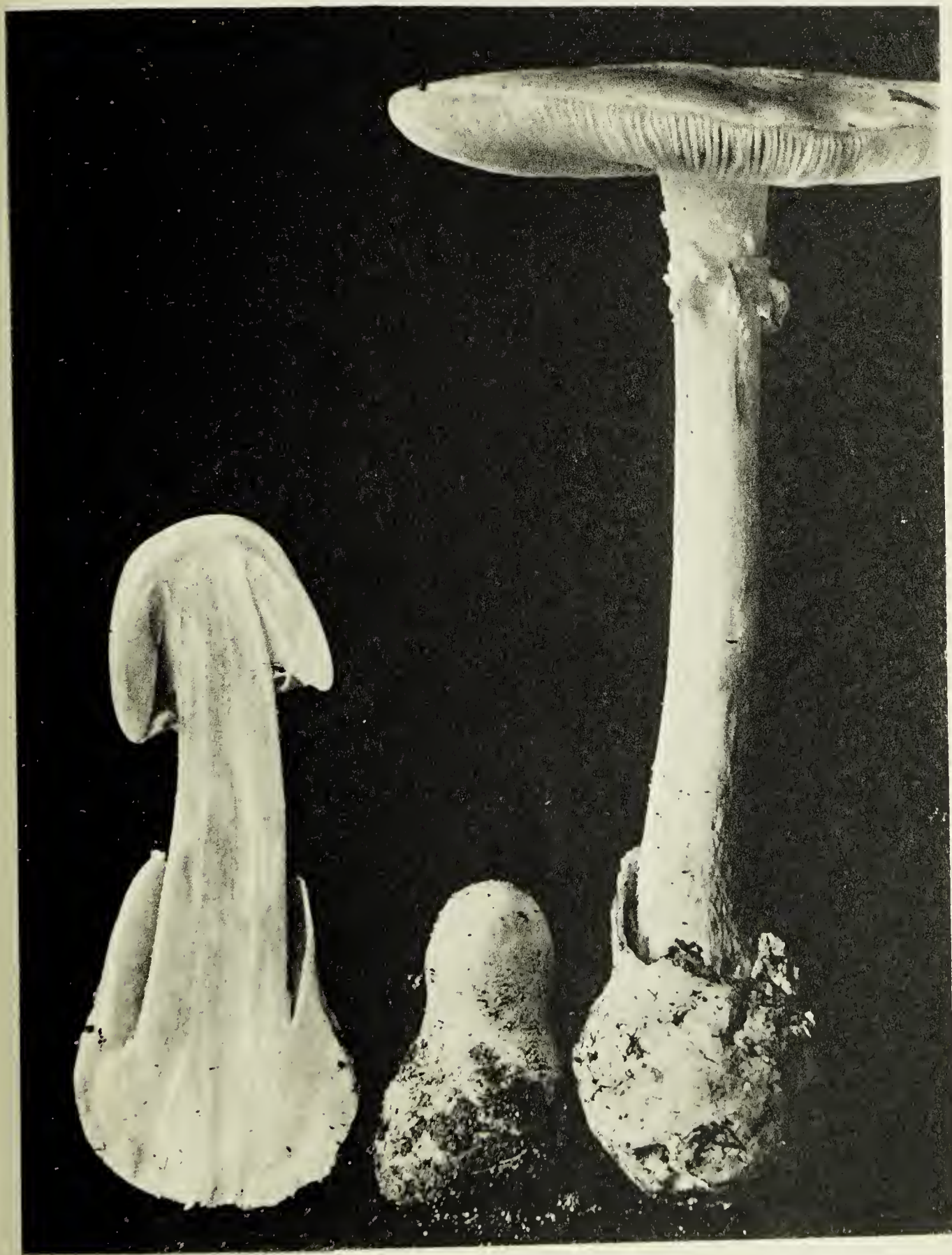
LEPTONIA ROSEA.



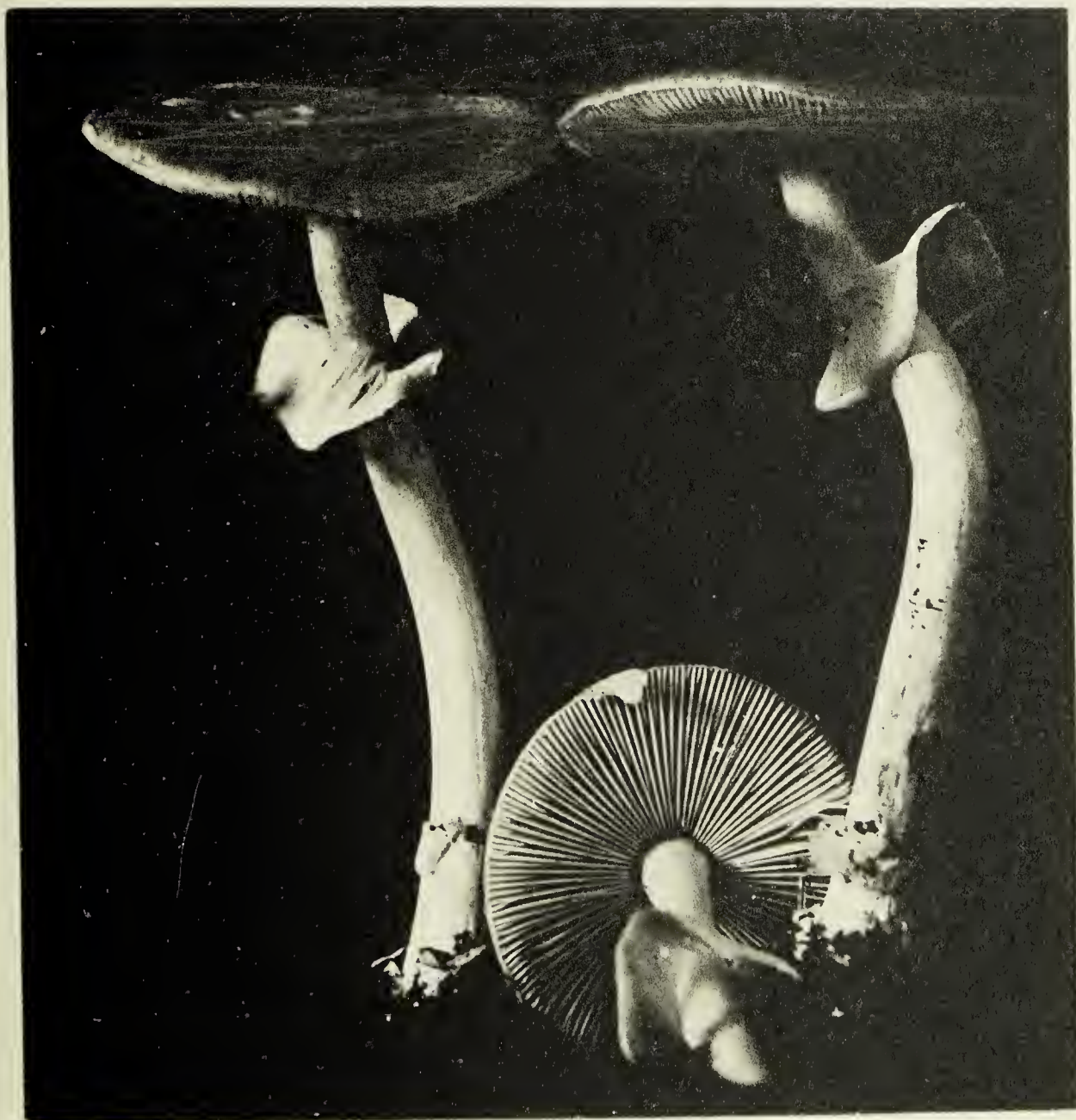
NOLEANA VERSATILIS.



CLAUDOPUS NIDULANS.



AMANITA VERNA.



AMANITA PORPHYRIA.



AMANITA SPRETA.



AMANITA COTERMINATA



AMANITA CHRYSOBLEMA.

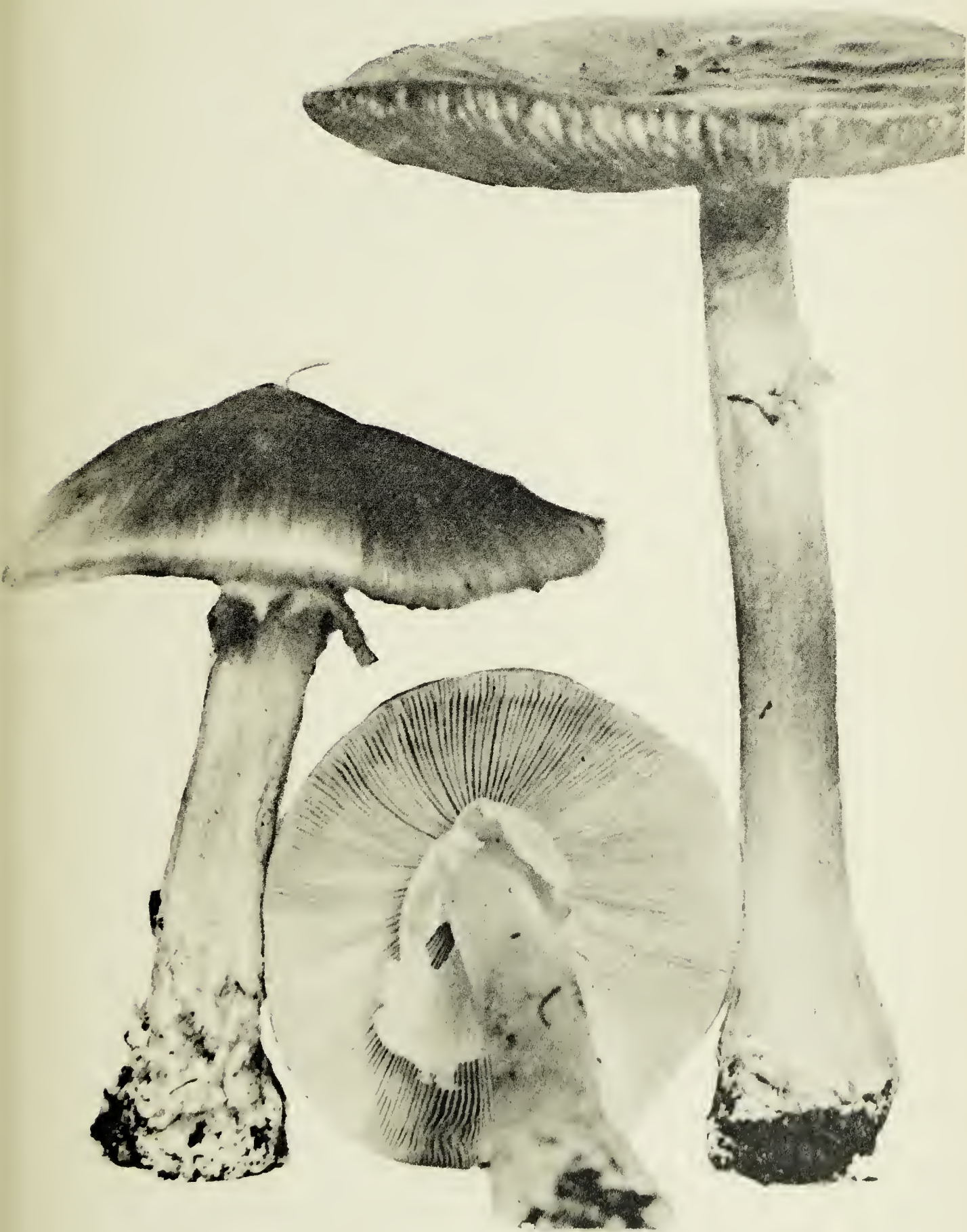




AMANITA FLAVORUBESCENS.



AMANITA FLAVOCONIA.



AMANITA SPISSA.



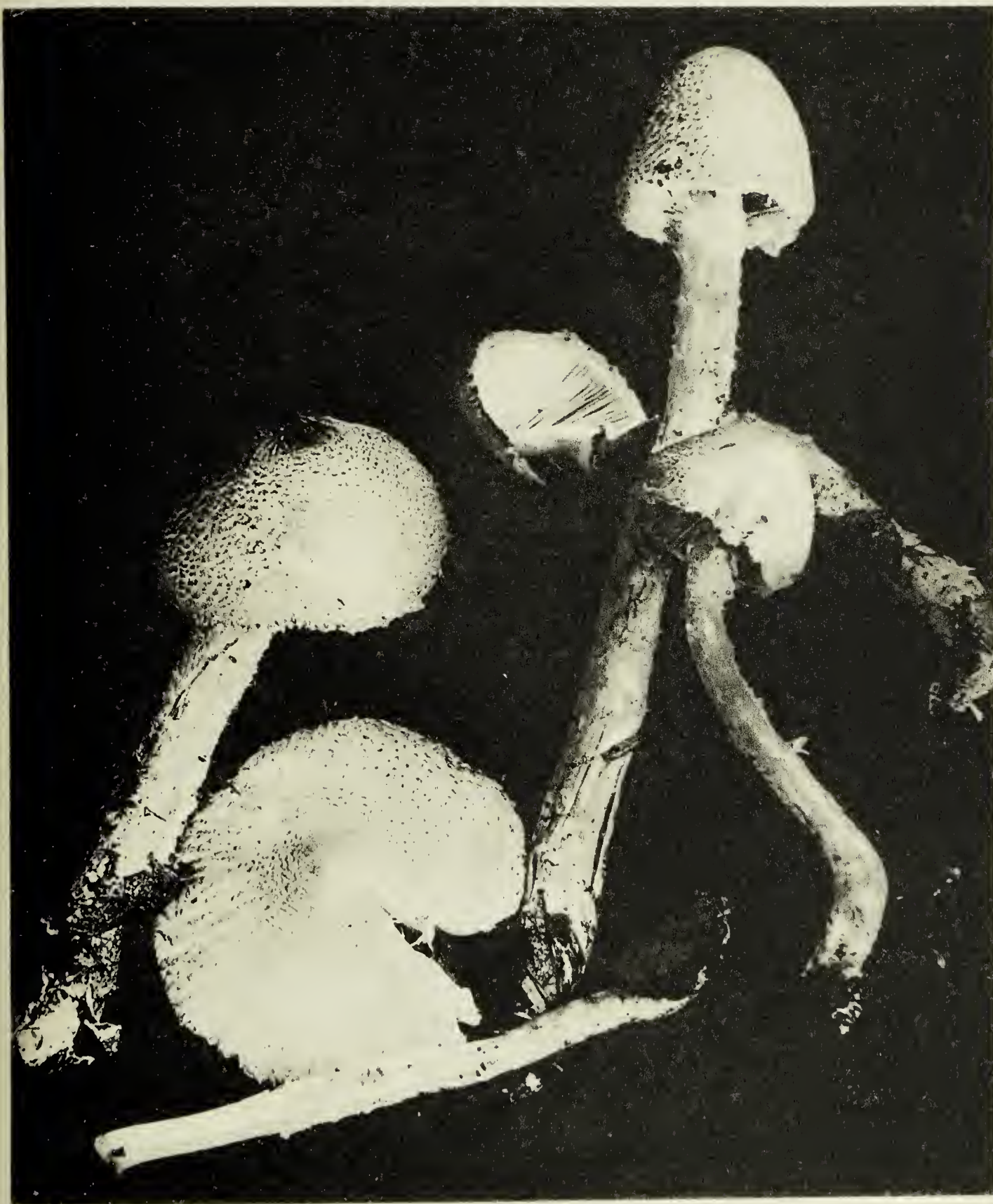
AMANITOPSIS VAGINATA.



AMANITOPSIS VAGINATA.

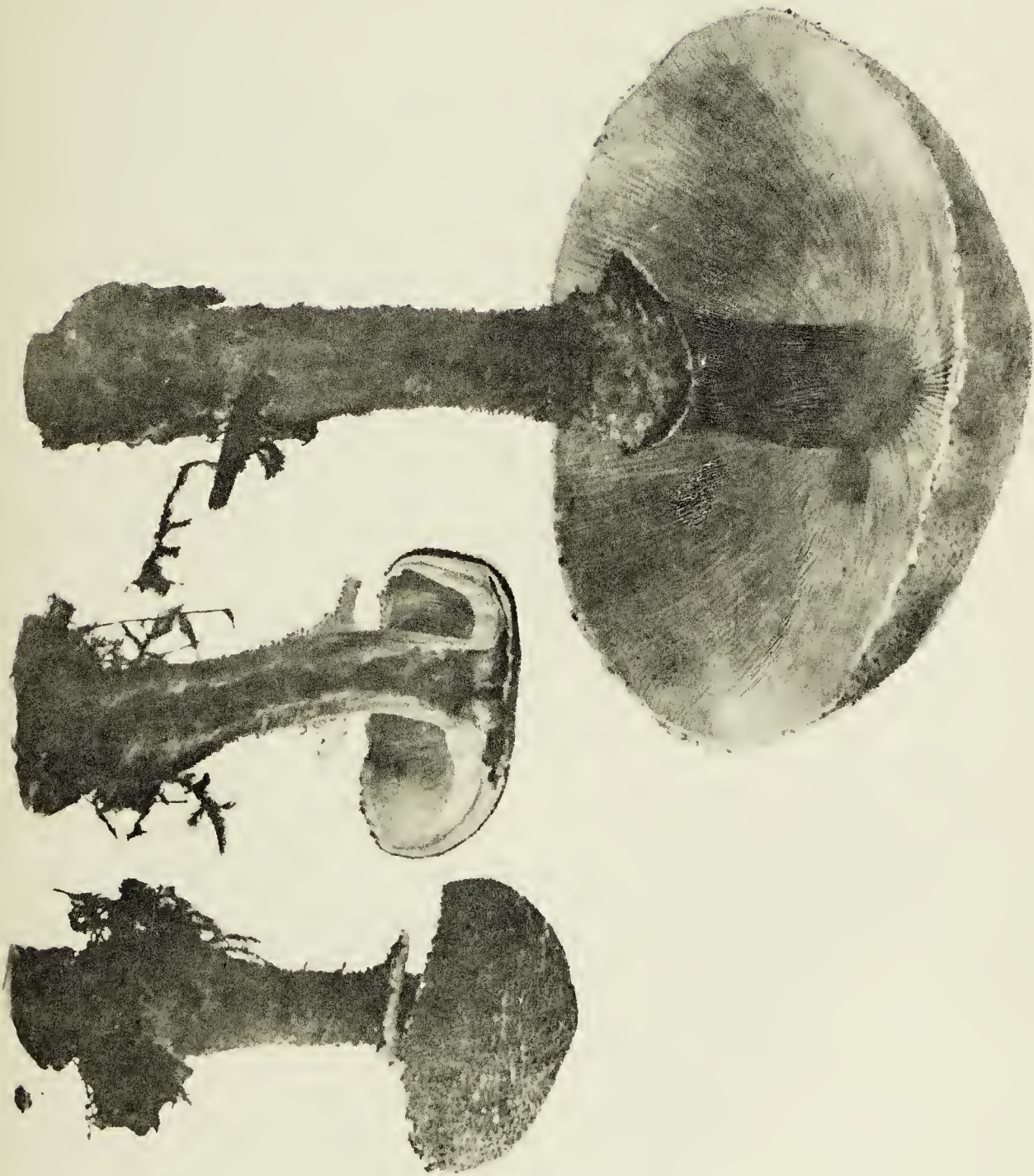
LEPIOTA FISCHERI.





LEPIOTA CLYPEOLARIA.

LEPIOTA GRANOSA



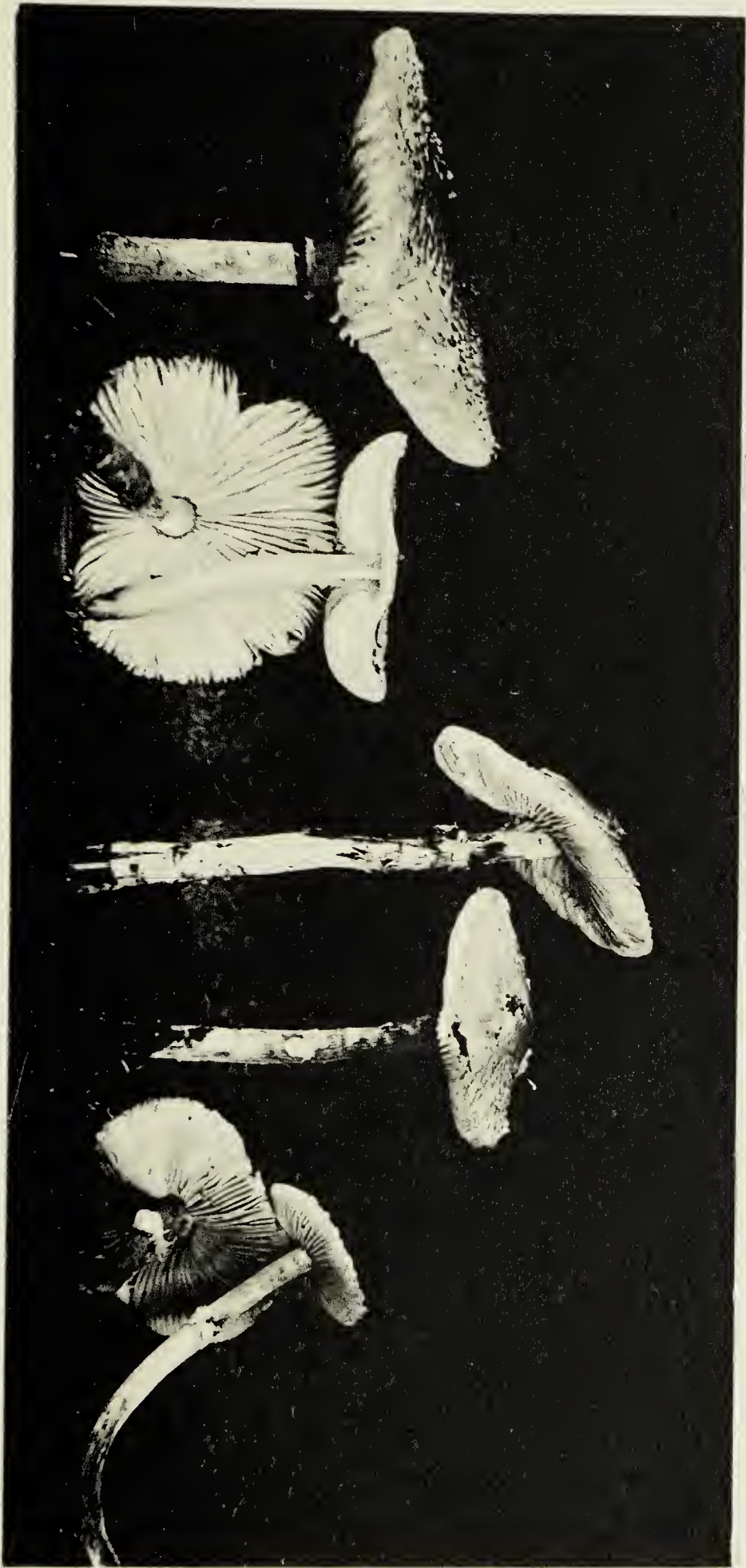


LEPIOTA CEPAESTIPES.

LAWN FORM

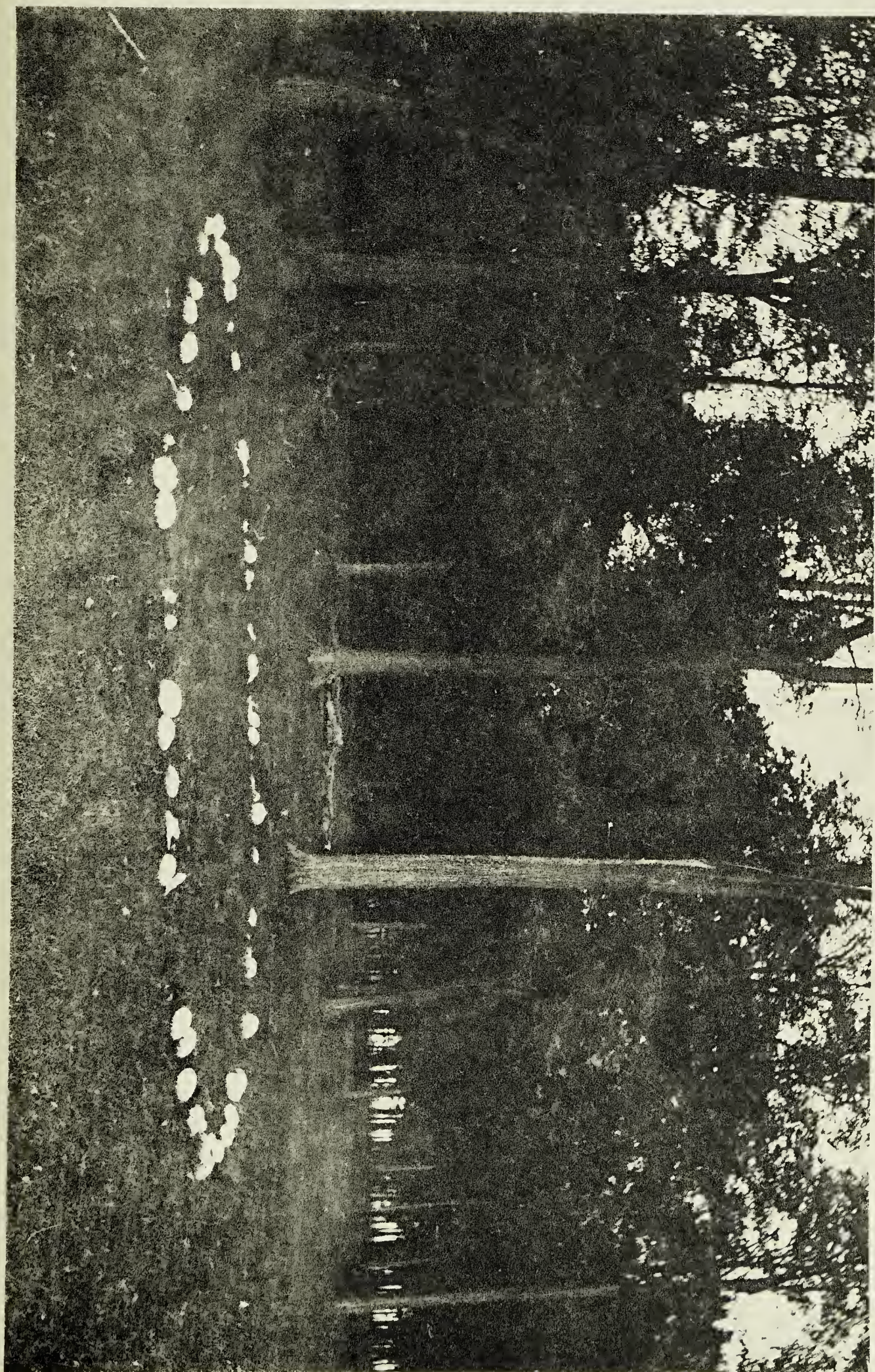
LEPIOTA CRISTATA.

FOREST FORM

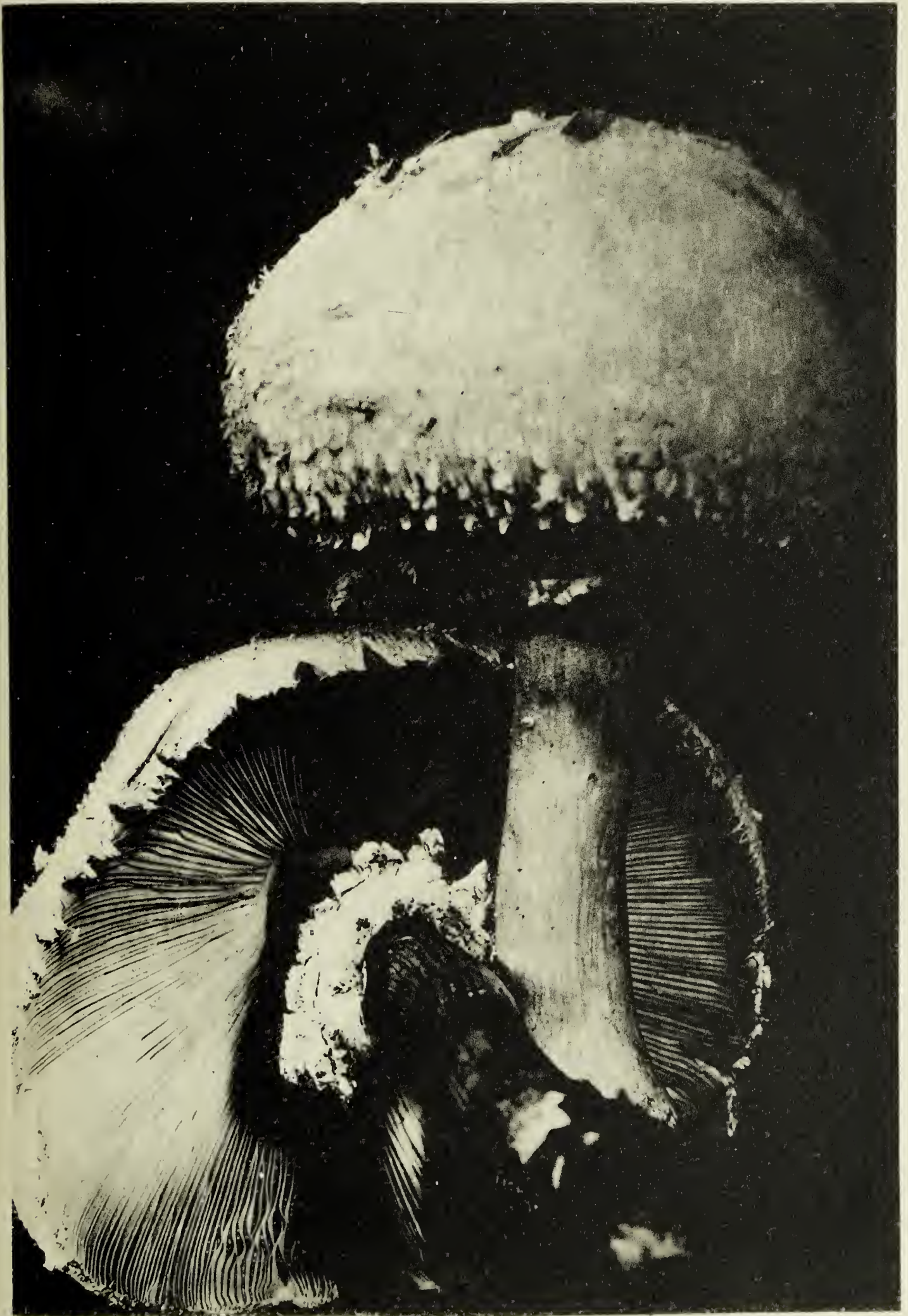




LEPIOTA PROCERA.



FAIRY RING OF *LEPIOTA MORGANI*.



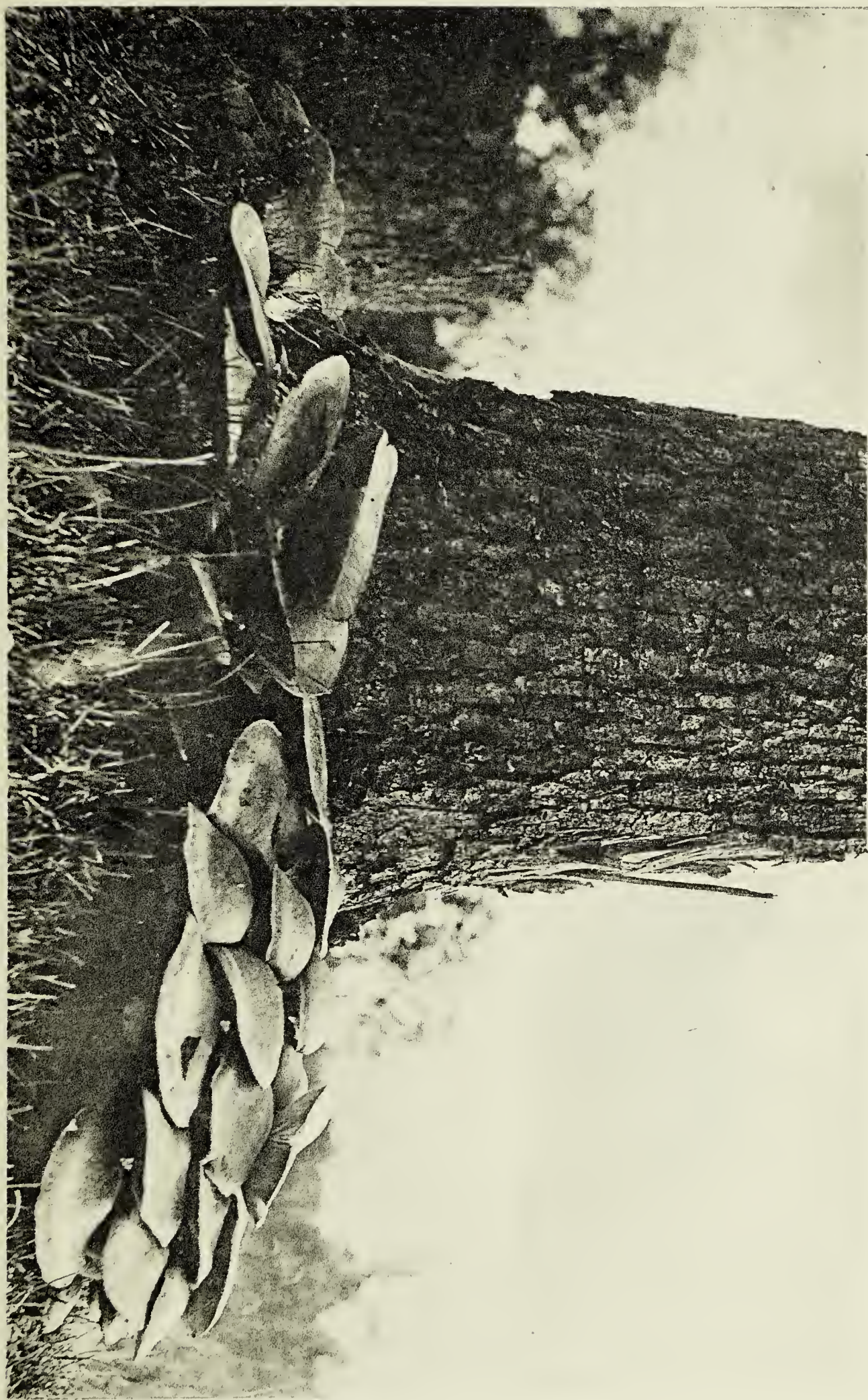
LEPIOTA MORGANI.







ARMILLARIA CALIGATA.



ARMILLARIA MELLEA.



ARMILLARIA MELLEA.







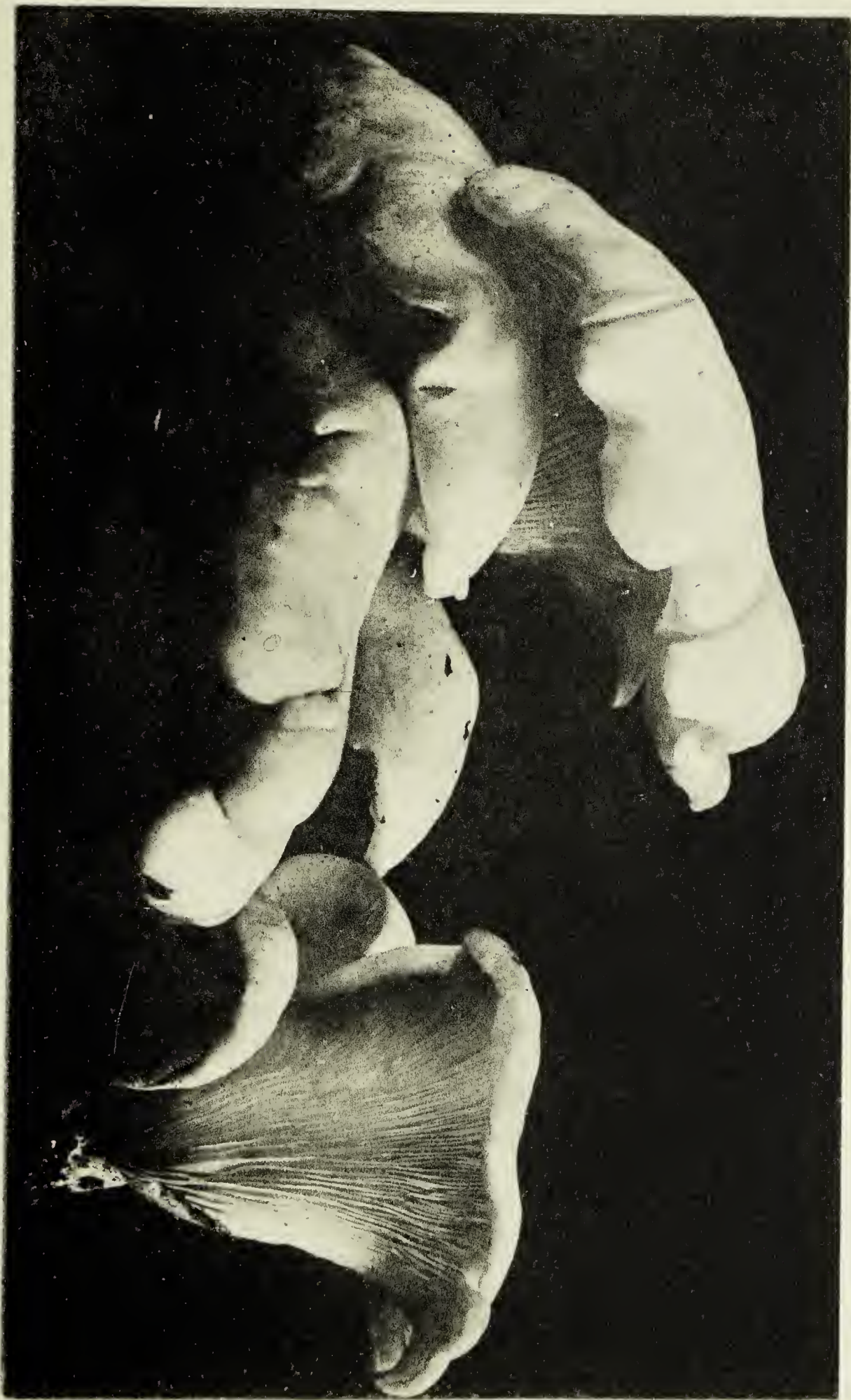
PLUEROTUS OSTREATUS.



PLUEROTUS LIGNATILIS.



PLEUROTUS FIMBRIATUS VAR. REGULARIS.



PLEUROTUS ALBOLANATUS.









TRICHOLOMA TERREUM.



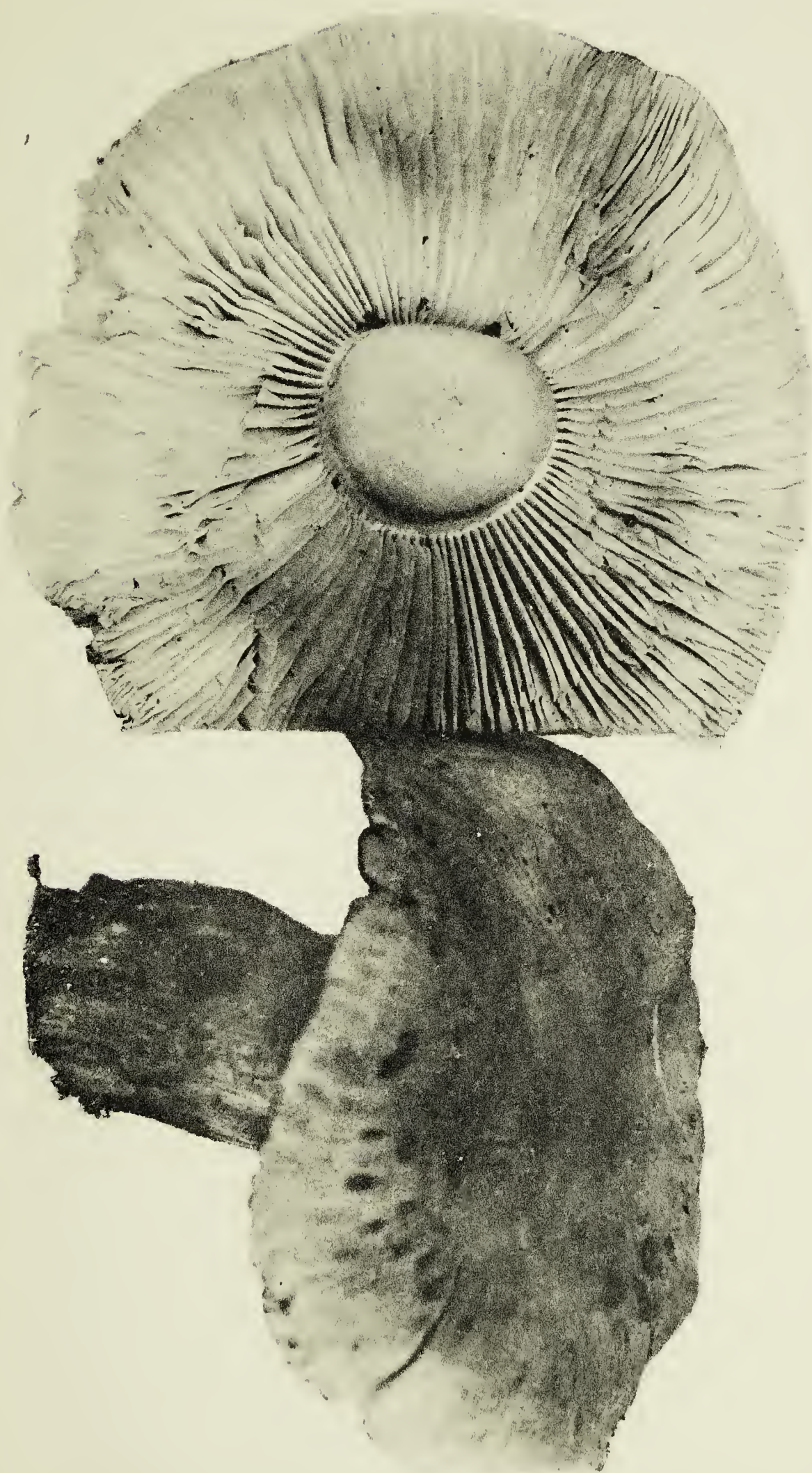
TRICHOLOMA FULIGINEUM.



TRICHOLOMA LATICEPS.



TRICHOLOMA ACERBUM.



TRICHOLOMA TUMIDUM.



CLITOCYBE PICEINA.



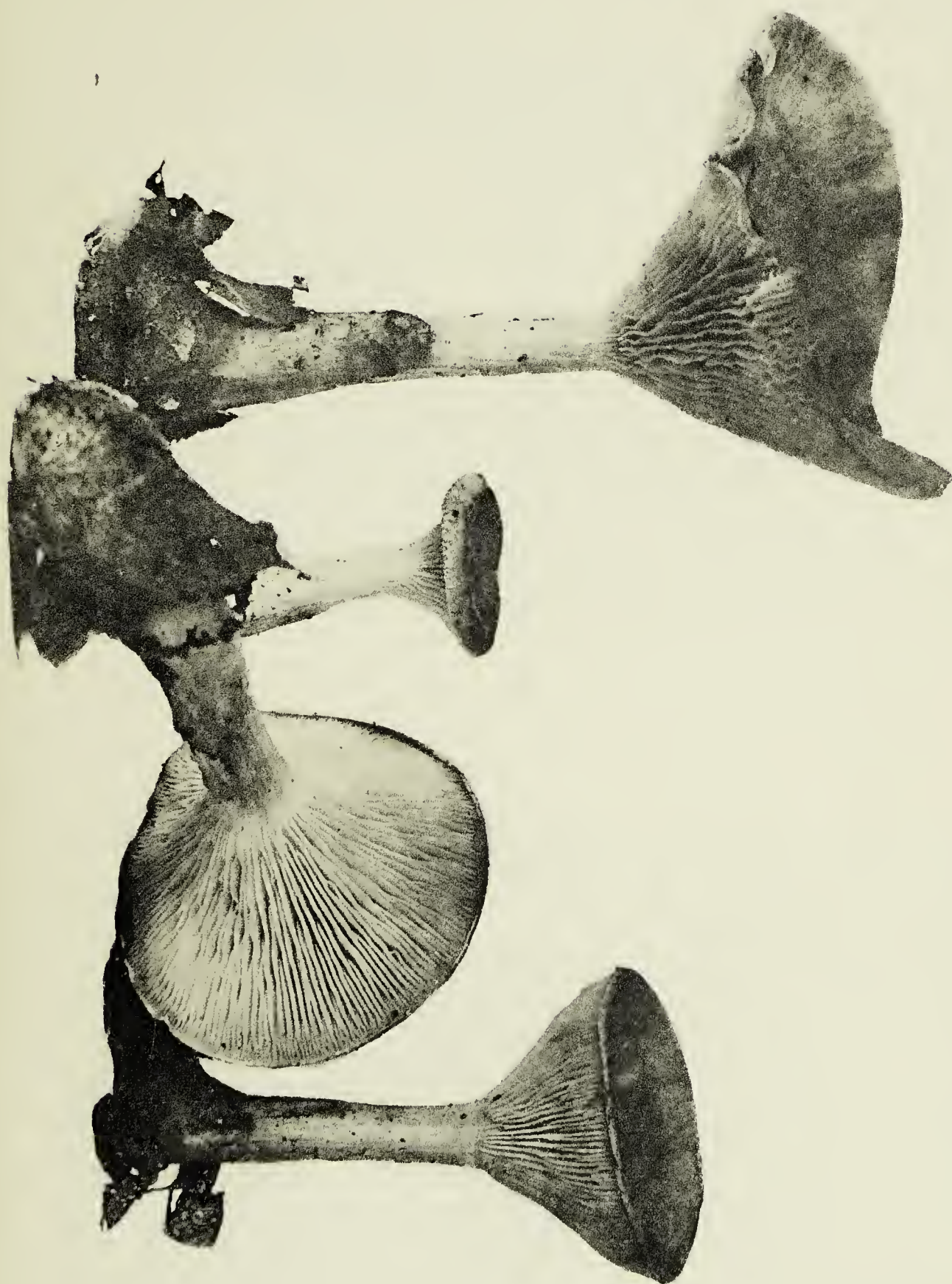


CLITOCYBE MAXIMA (P. nodosa and thin)



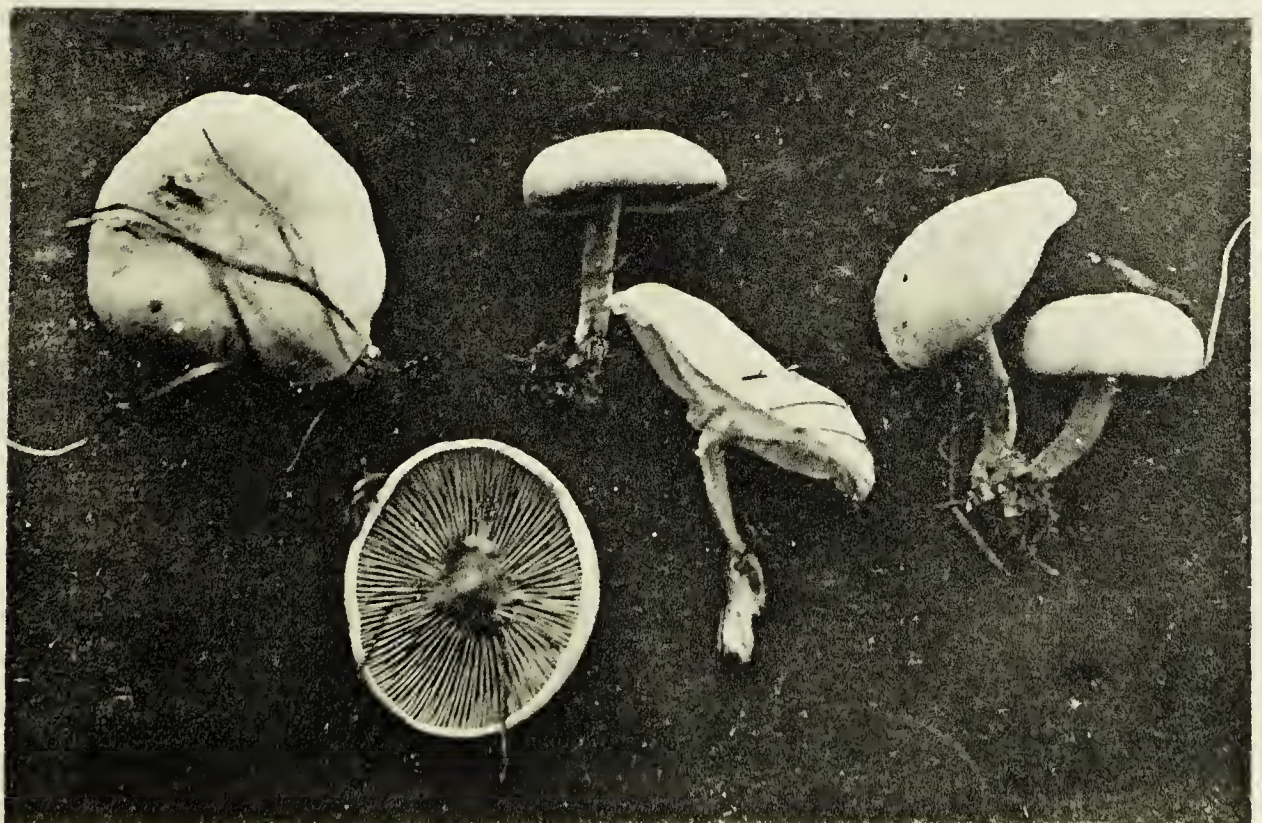


CLITCYBE MULTICAPS.





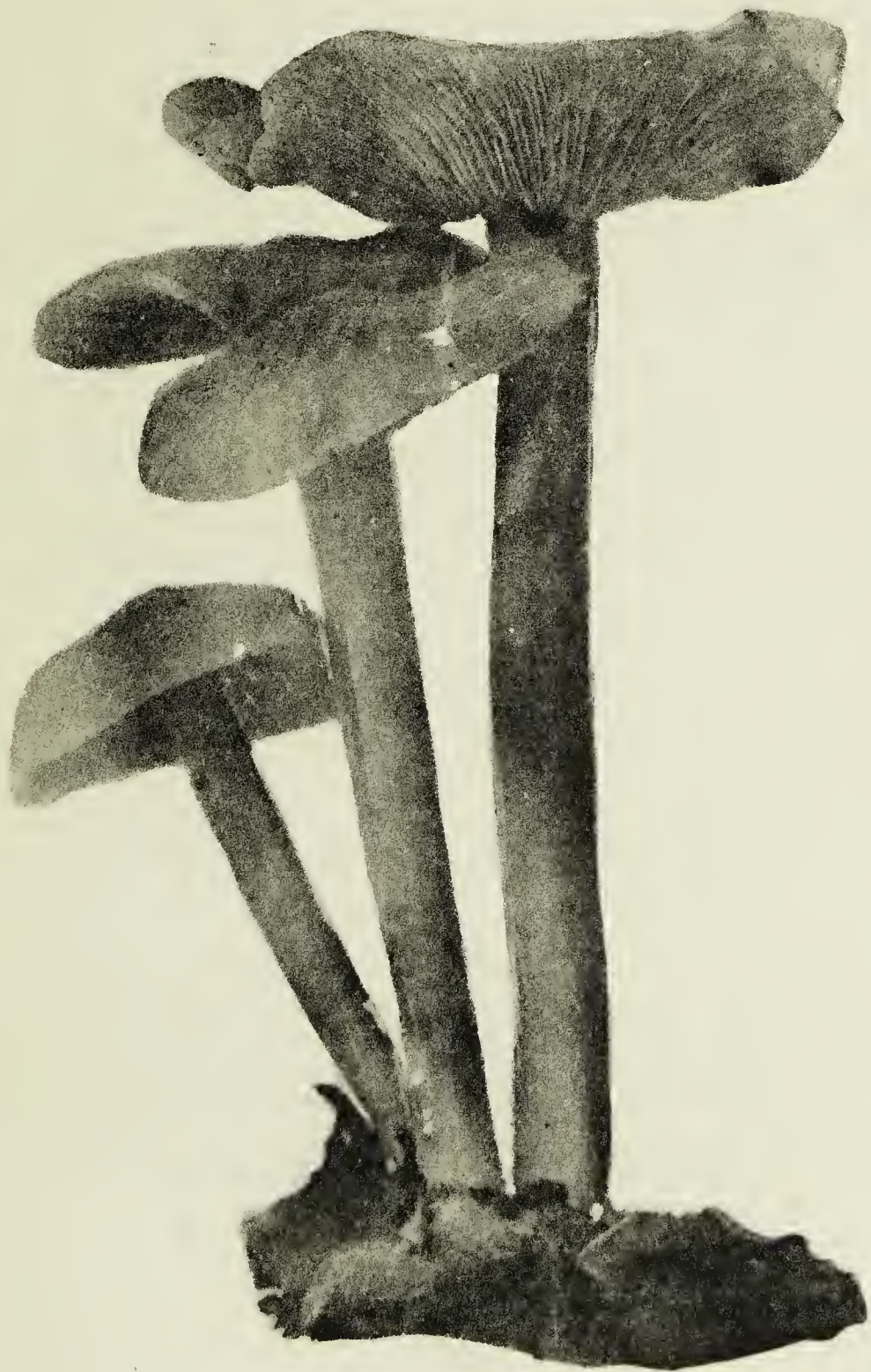
CLITOCYBE CYATHIFORME.



CLITOCYBE MORBIFERA.



COLLYBIA DRYOPHILA.



COLLYBIA STRICTIPES.

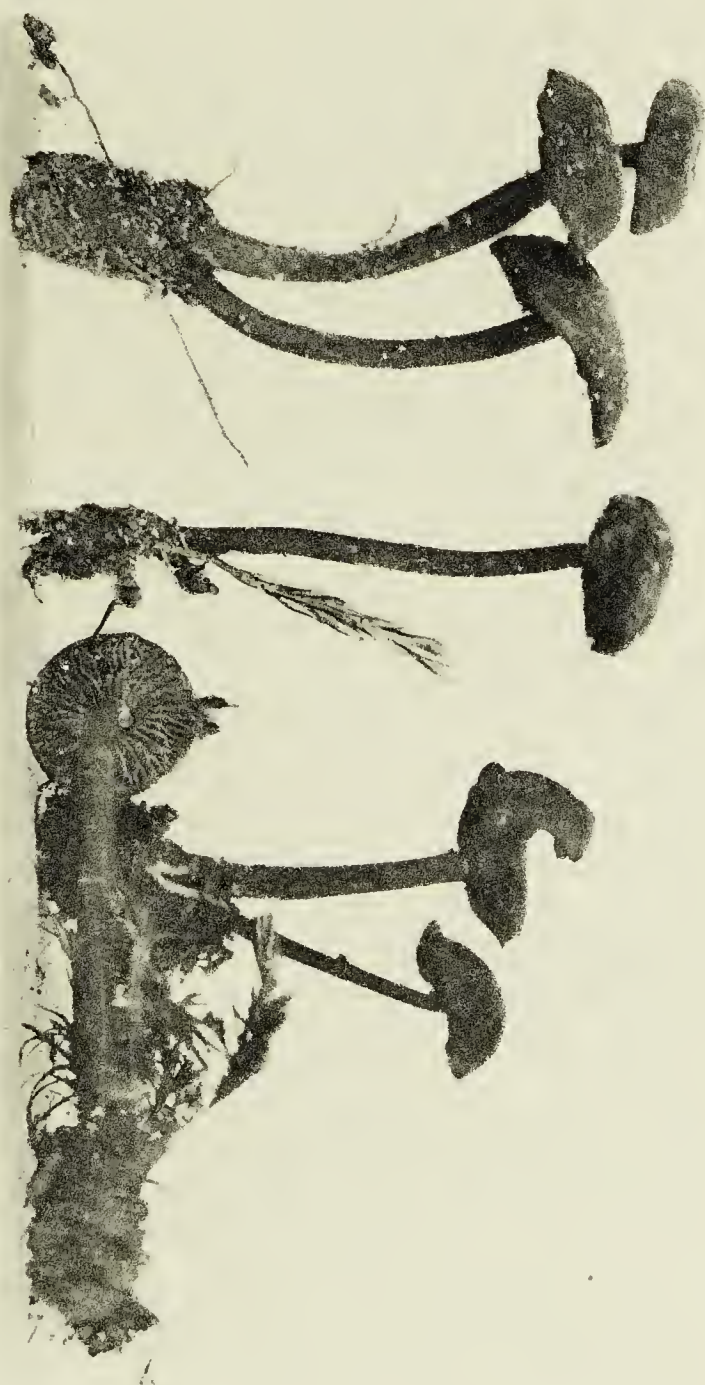


COLLYBIA ALCALINOLENS.



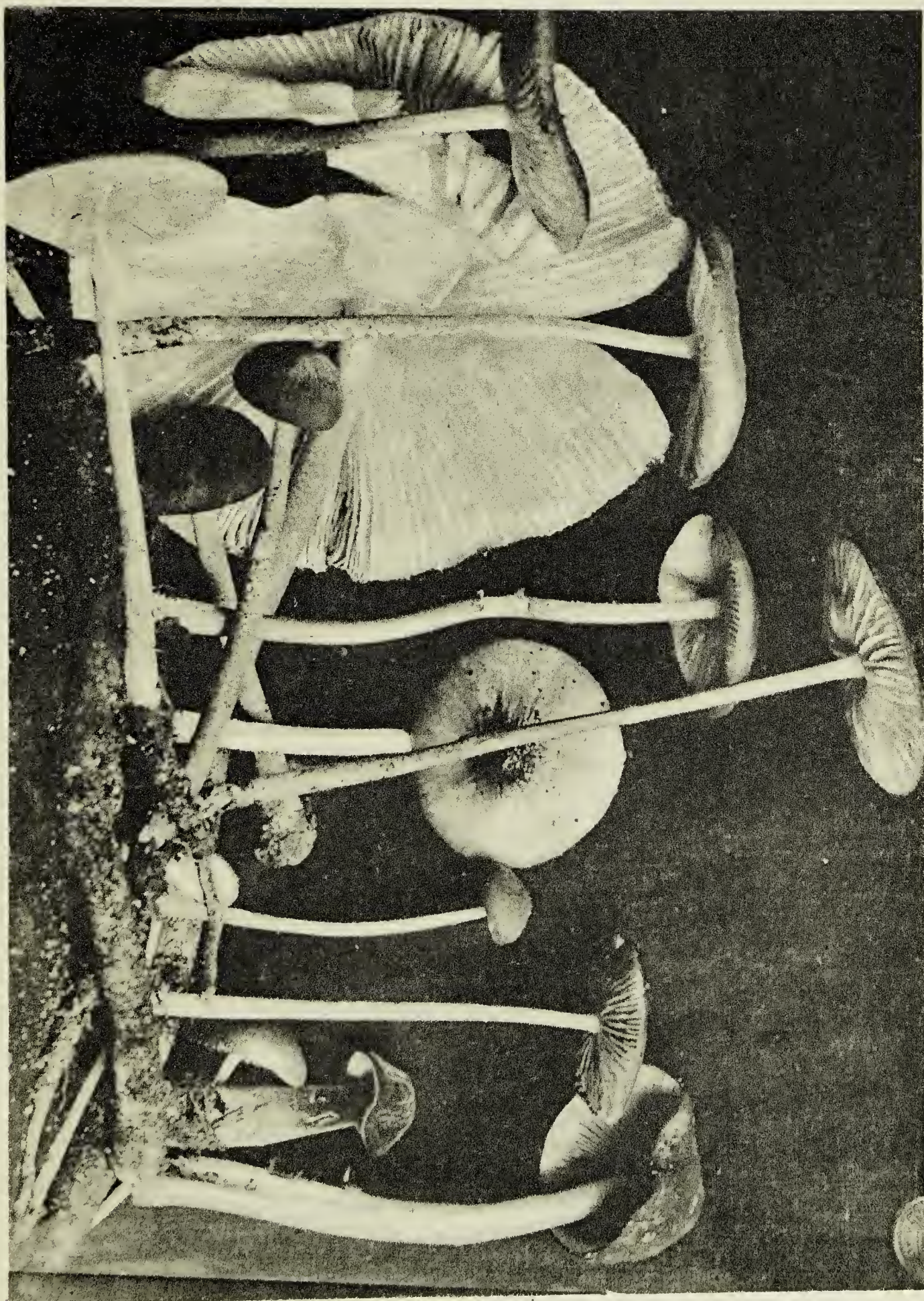


COLLYBIA HYGROPHOROIDES.



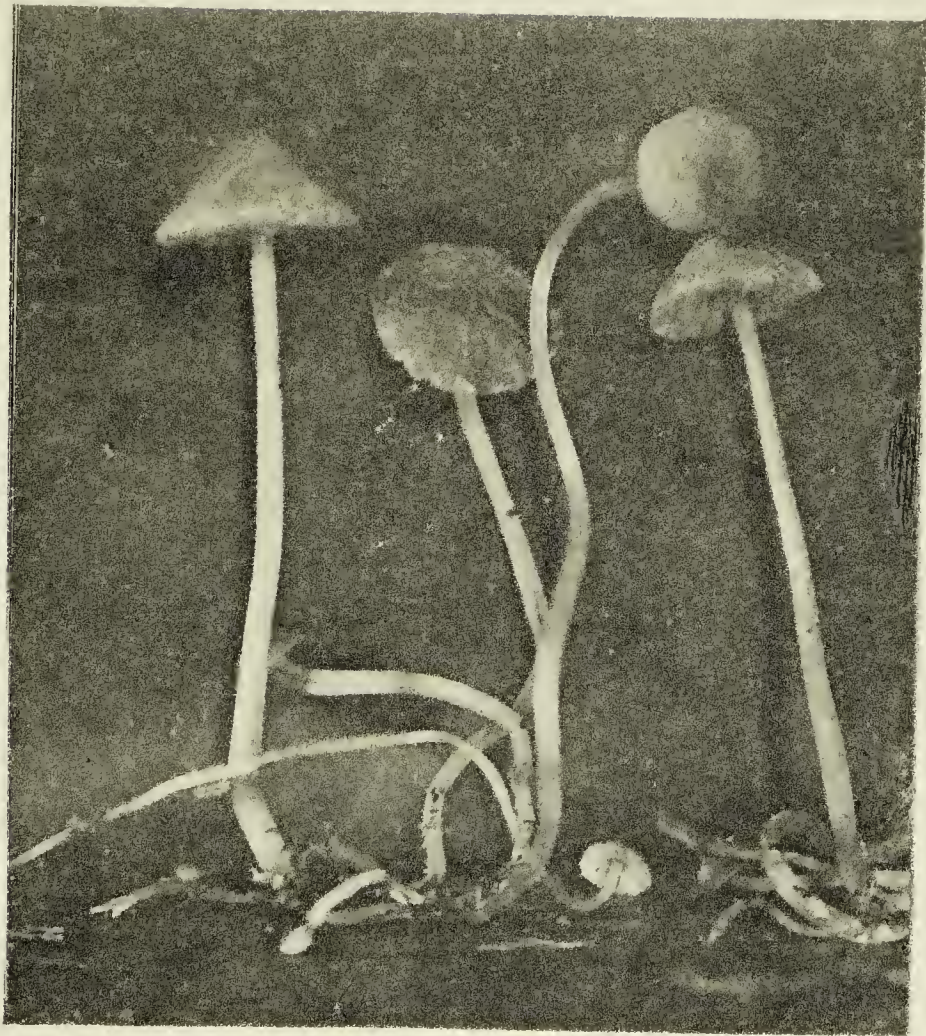


COLLYBIA ABUNDANS.



COLLYBIA RADICATA.





COLLYBIA FLOCCIPES.



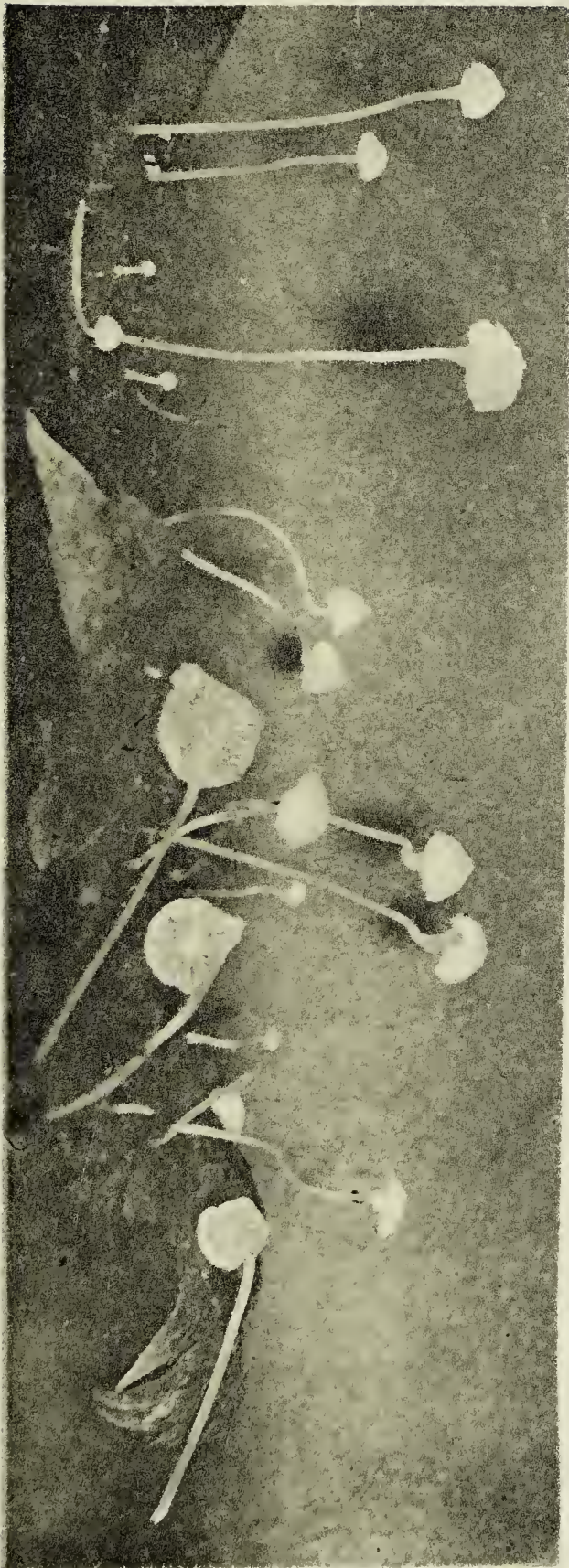
MYCENA SP.



MYCENA INCLINATA VAR.



OMPHALIA EPICHYSIUM.



OMPHALIA GRACILLIMA.



OMPHALIA CAMPANELLA.

